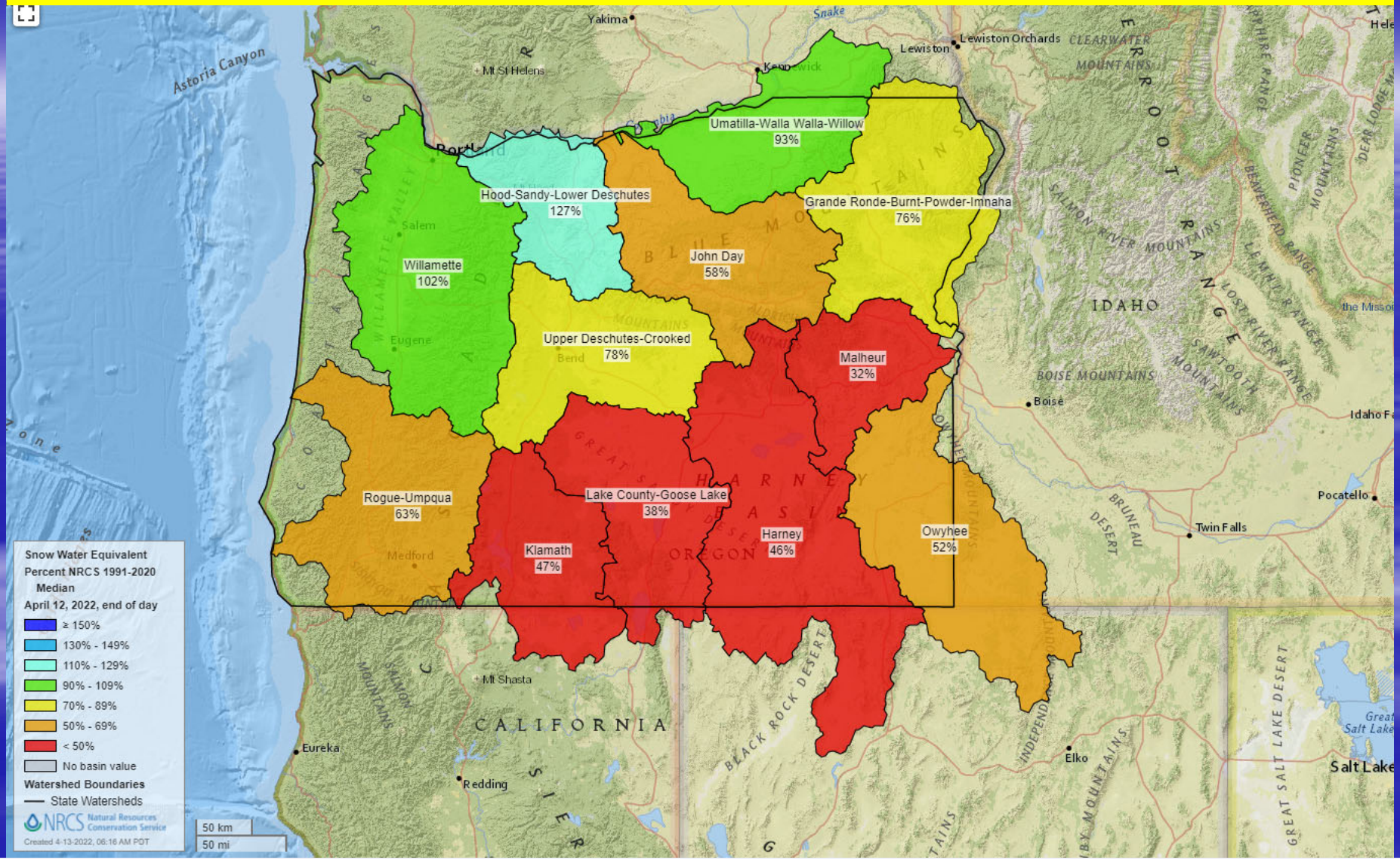
Oregon Water Supply Availability Committee May 11, 2022

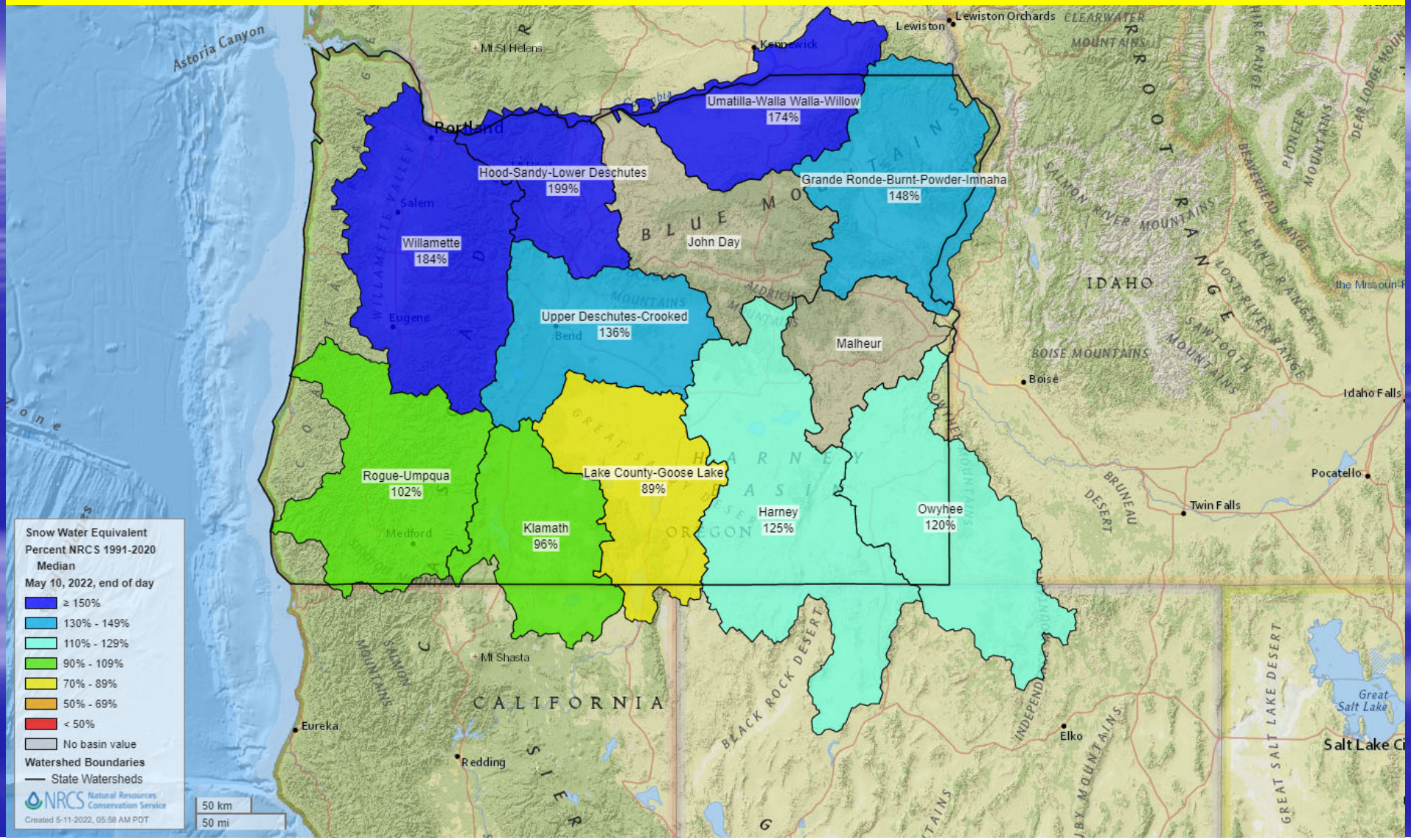
Silver Burn Snow Course
April 28, 2022
Jackson County
Elevation 3,680’
SWE = 2.3” Median = 0.0”

H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviatt@usda.gov
541-429-2359

April 13, 2022, Statewide SNOTEL Snow Water Equivalent was 83% of 1991-2020 median

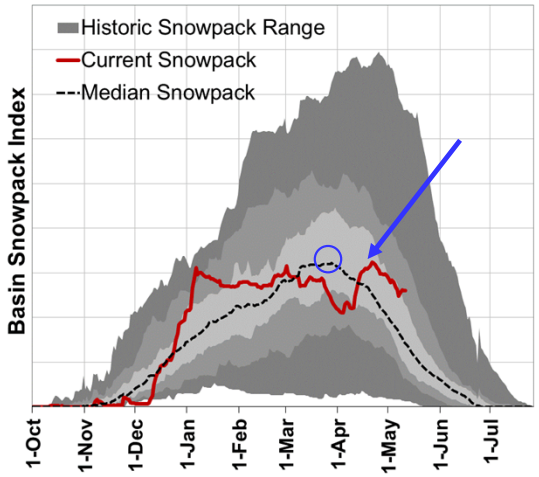


May 11, 2022, SNOTEL Water Year Precipitation is 155% of 1991-2020 median



OREGON SNOWPACK GRAPHS – May 11, 2022

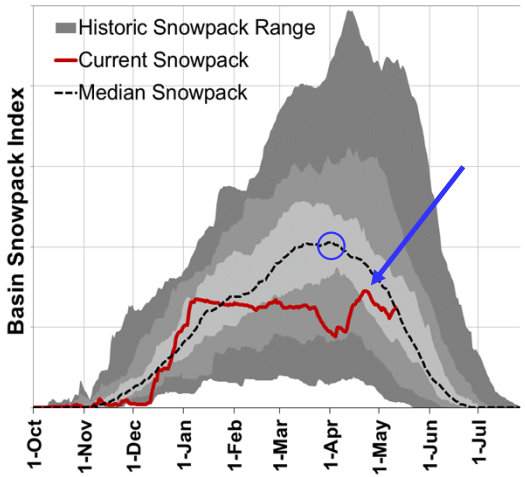
Willamette



Late Peak

Willamette Peak Snowpack was on April 21 at 100% of Normal Median peak (March 28). Current snowpack is 81% of Peak Median (184% of median today)

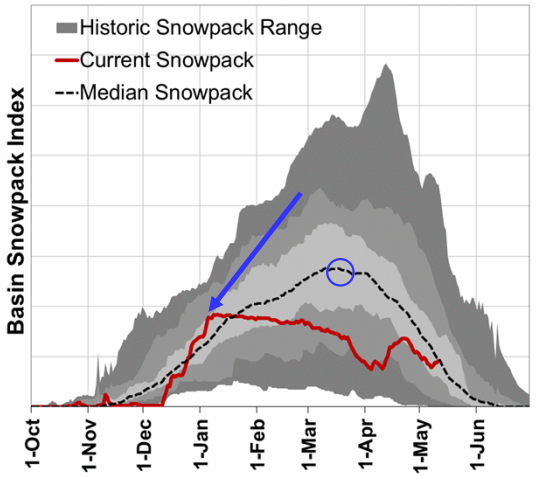
Rogue-Umpqua



Late Peak

Rogue-Umpqua Peak Snowpack was on April 23 at 70% of Normal Median peak (April 1). Current snowpack is 59% of Peak Median (102% of median today)

Klamath

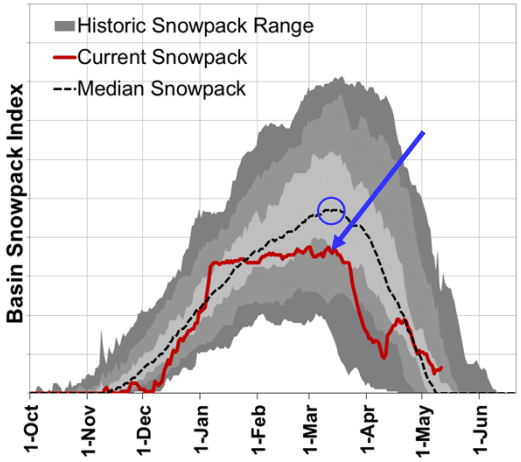


Early Peak

Klamath Peak Snowpack was on January 8 at 67% of Normal Median peak (March 17). Current snowpack is 33% of Peak Median (96% of median today)

OREGON SNOWPACK GRAPHS – May 11, 2022

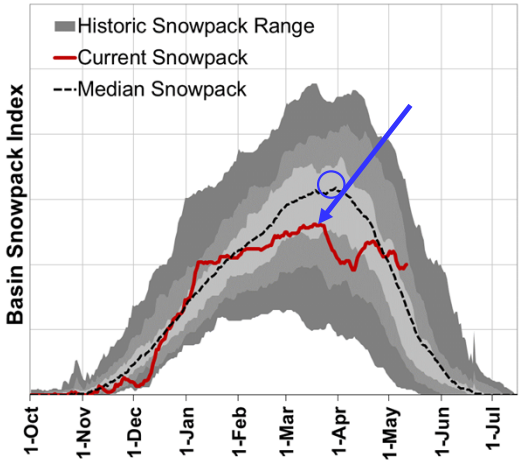
John Day



Near-Normal Peak

John Day Peak Snowpack was on March 11 at 80% of Normal Median peak (March 17). Current snowpack is 14% of Peak Median (0% of median today)

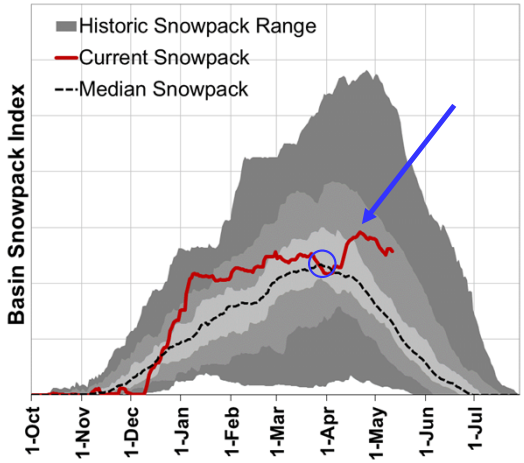
Grande Ronde-Burnt-Powder-Imnaha



Near-Normal Peak

Grande Ronde-Burnt-Powder-Imnaha Peak Snowpack was on March 23 at 82% of Normal Median peak (March 30). Current snowpack is 63% of Peak Median (148% of median today)

Hood-Sandy-Lower Deschutes

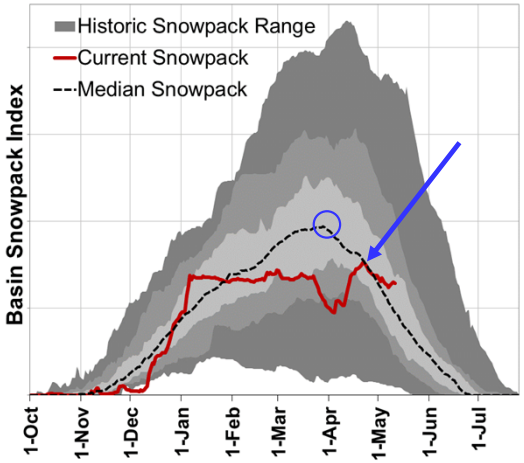


Late Peak

Hood-Sandy-Lower Deschutes Peak Snowpack was on April 21 at 124% of Normal Median peak (March 28). Current snowpack is 110% of Peak Median (199% of median today)

OREGON SNOWPACK GRAPHS – May 11, 2022

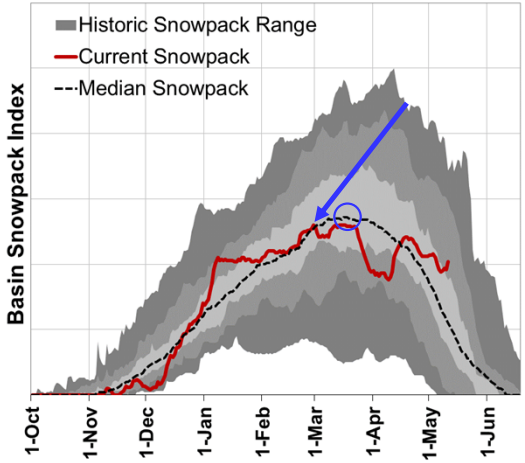
Upper Deschutes-Crooked



Late Peak

Upper Deschutes-Crooked Peak Snowpack was on April 23 at 78% of Normal Median peak (March 28). Current snowpack is 66% of Peak Median (136% of median today)

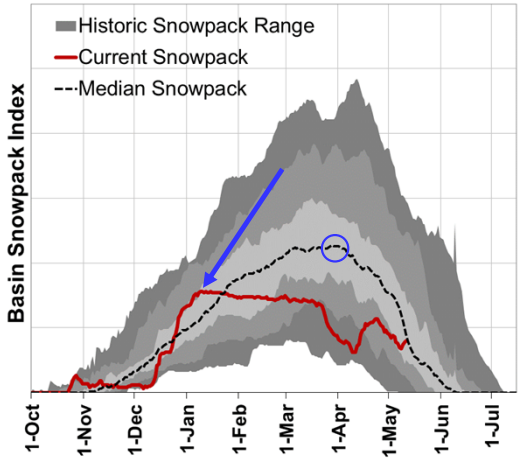
Umatilla-Walla Walla-Willow



Near-Normal Peak

Umatilla-Walla Walla-Willow Peak Snowpack was on March 1 at 95% of Normal Median peak (March 18). Current snowpack is 75% of Peak Median (174% of median today)

Lake County-Goose Lake

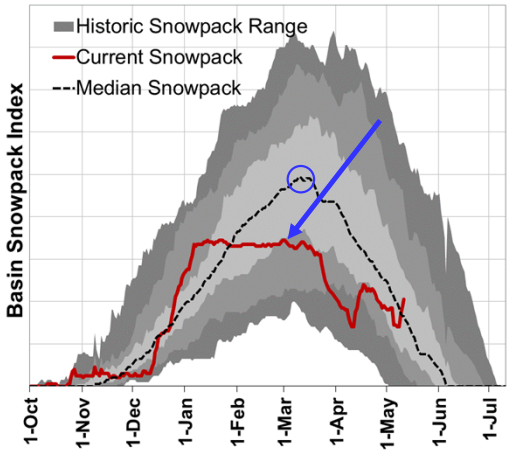


Early Peak

Lake County-Goose Lake Peak Snowpack was on January 9 at 68% of Normal Median peak (March 28). Current snowpack is 35% of Peak Median (89% of median today)

OREGON SNOWPACK GRAPHS – May 11, 2022

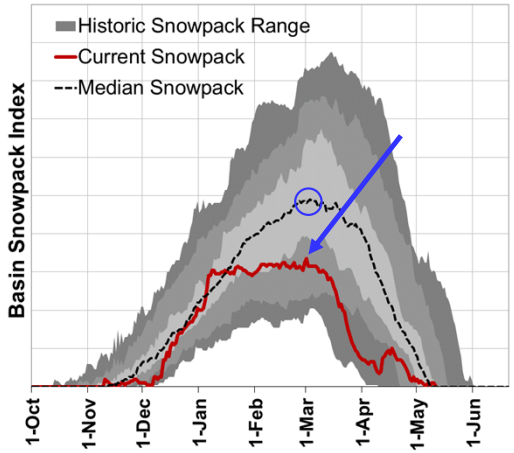
Harney



Early Peak

Harney Peak Snowpack was on February 28 at 70% of Normal Median peak (March 10). Current snowpack is 41% of Peak Median (125% of median today)

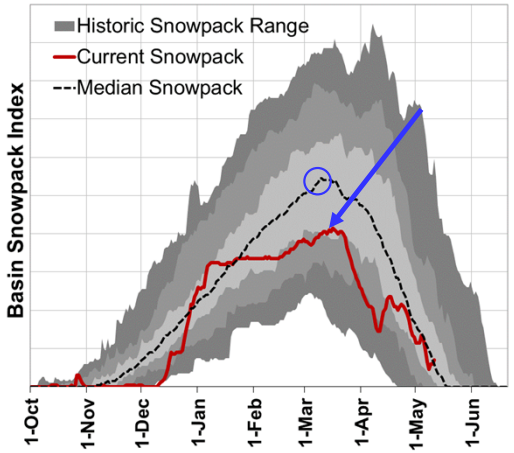
Malheur



Near-Normal Peak

Malheur Peak Snowpack was on March 1 at 69% of Normal Median peak (March 4). Current snowpack is 0% of Peak Median (0% of median today)

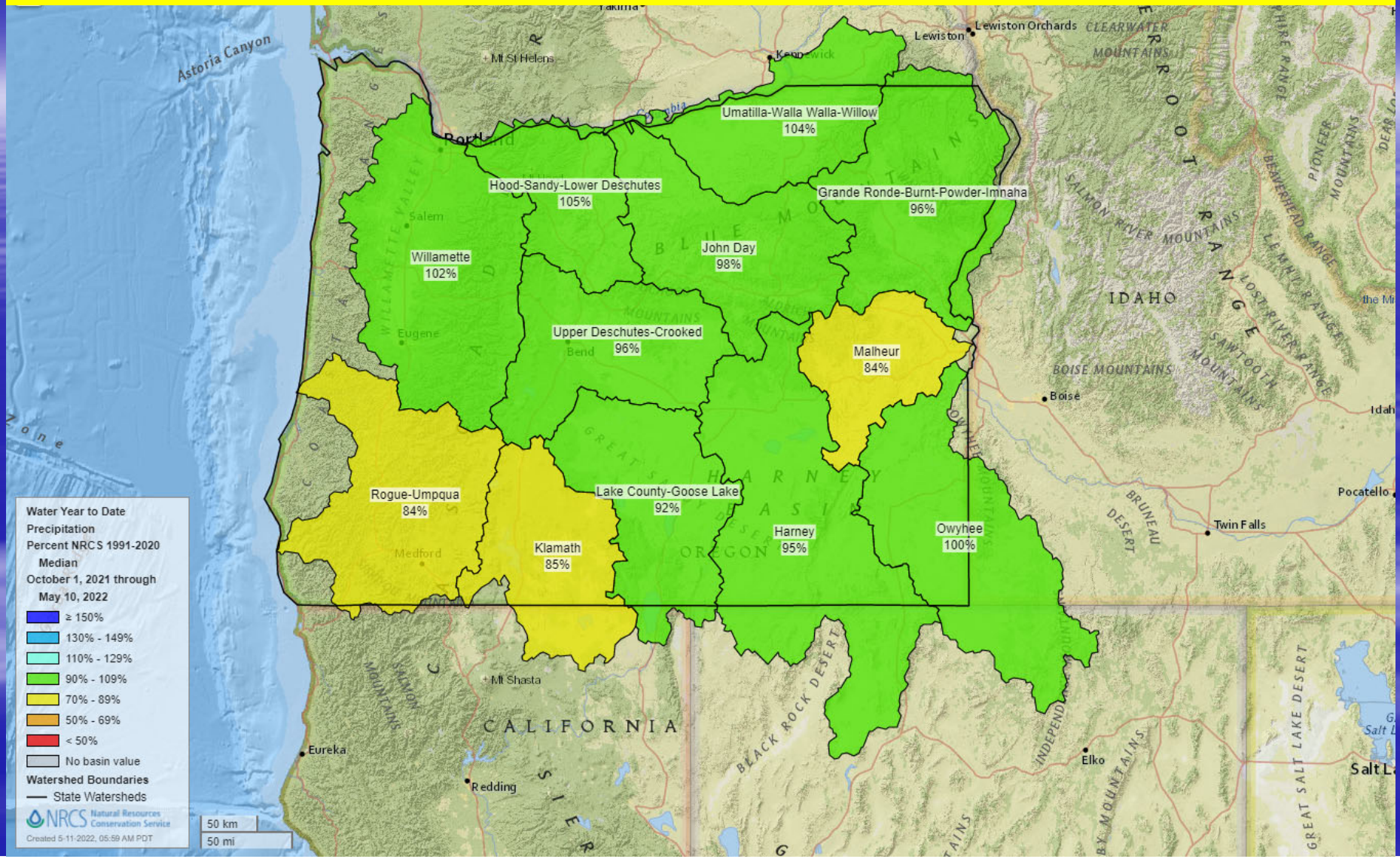
Owyhee



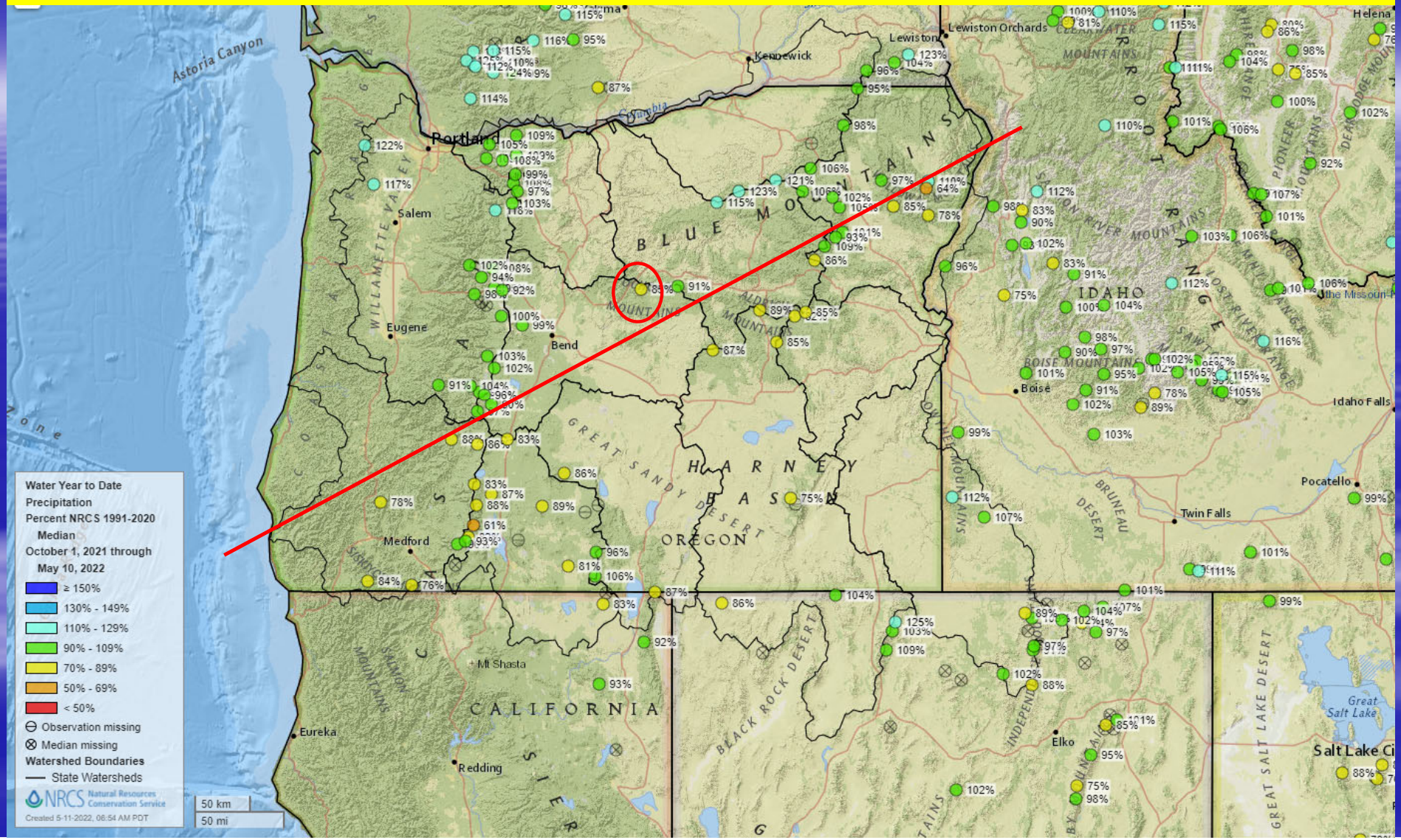
Early Peak

Owyhee Peak Snowpack was on March 16 at 76% of Normal Median peak (March 10). Current snowpack is 13% of Peak Median (120% of median today)

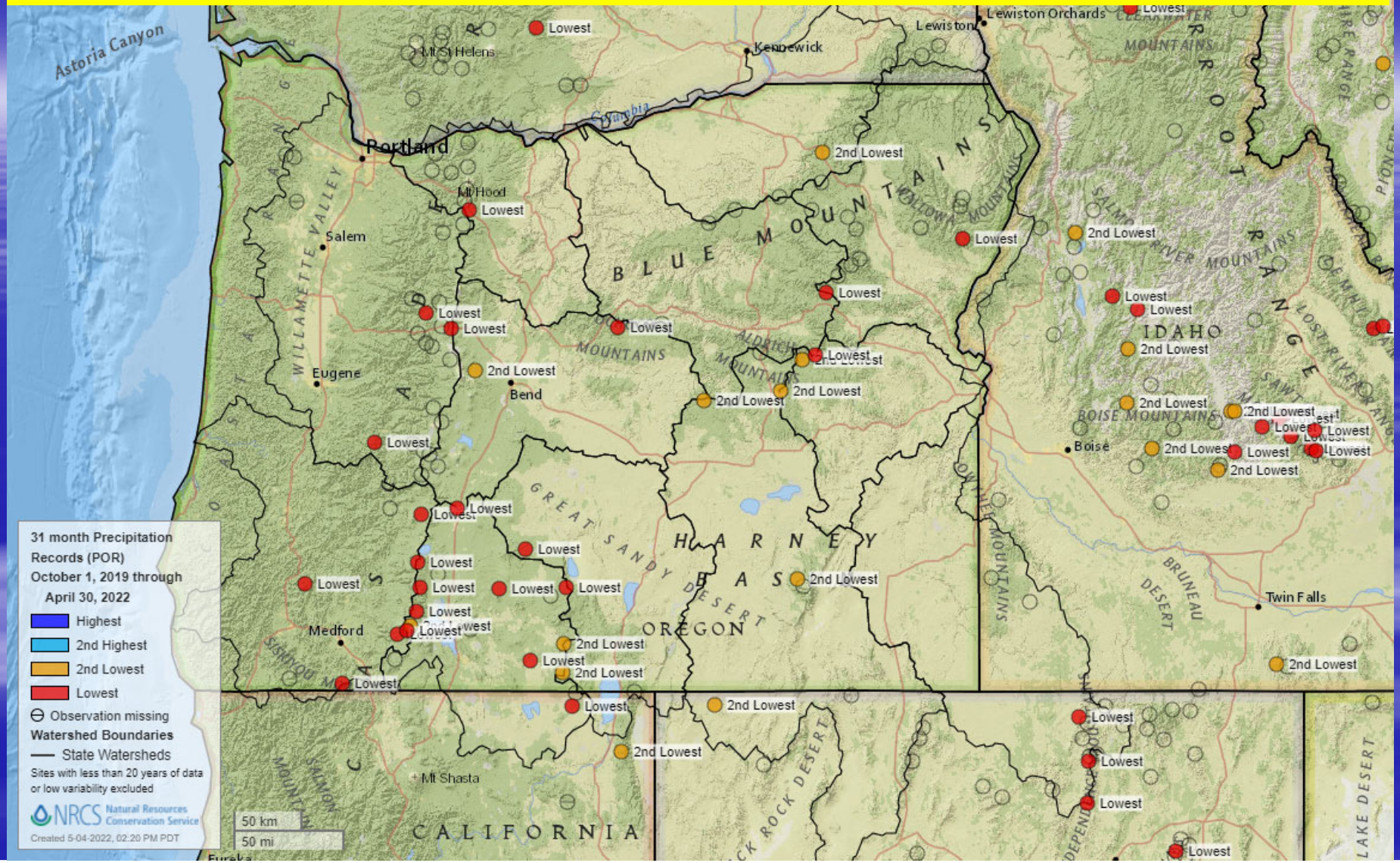
May 11, 2022, SNOTEL Water Year Precipitation is 97% of 1991-2020 median



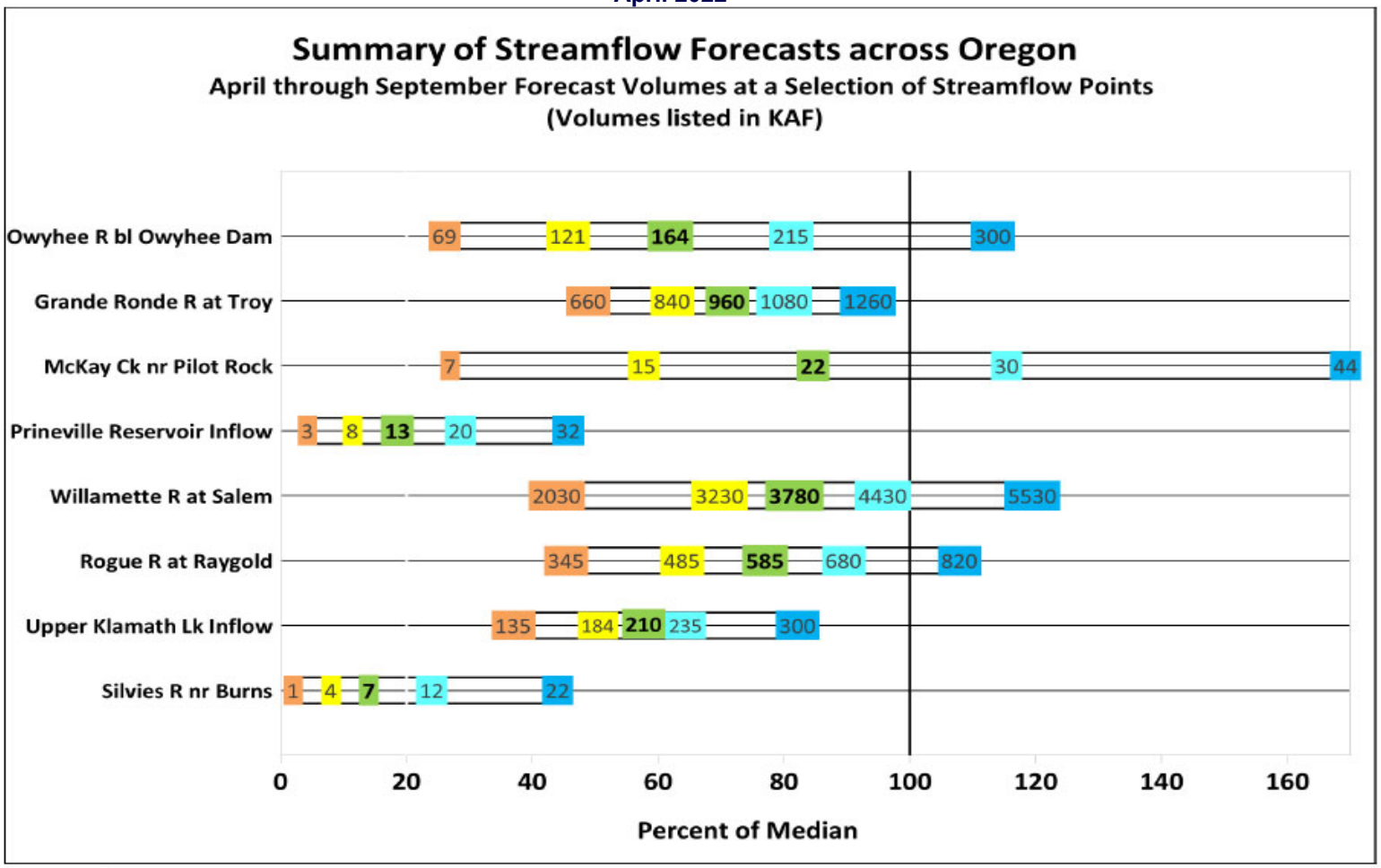
May 11, 2022, SNOTEL Water Year Precipitation % of 1991-2020 median



SNOTEL 31-Month Precipitation Records – October 1, 2019, through April 30, 2022



April 2022



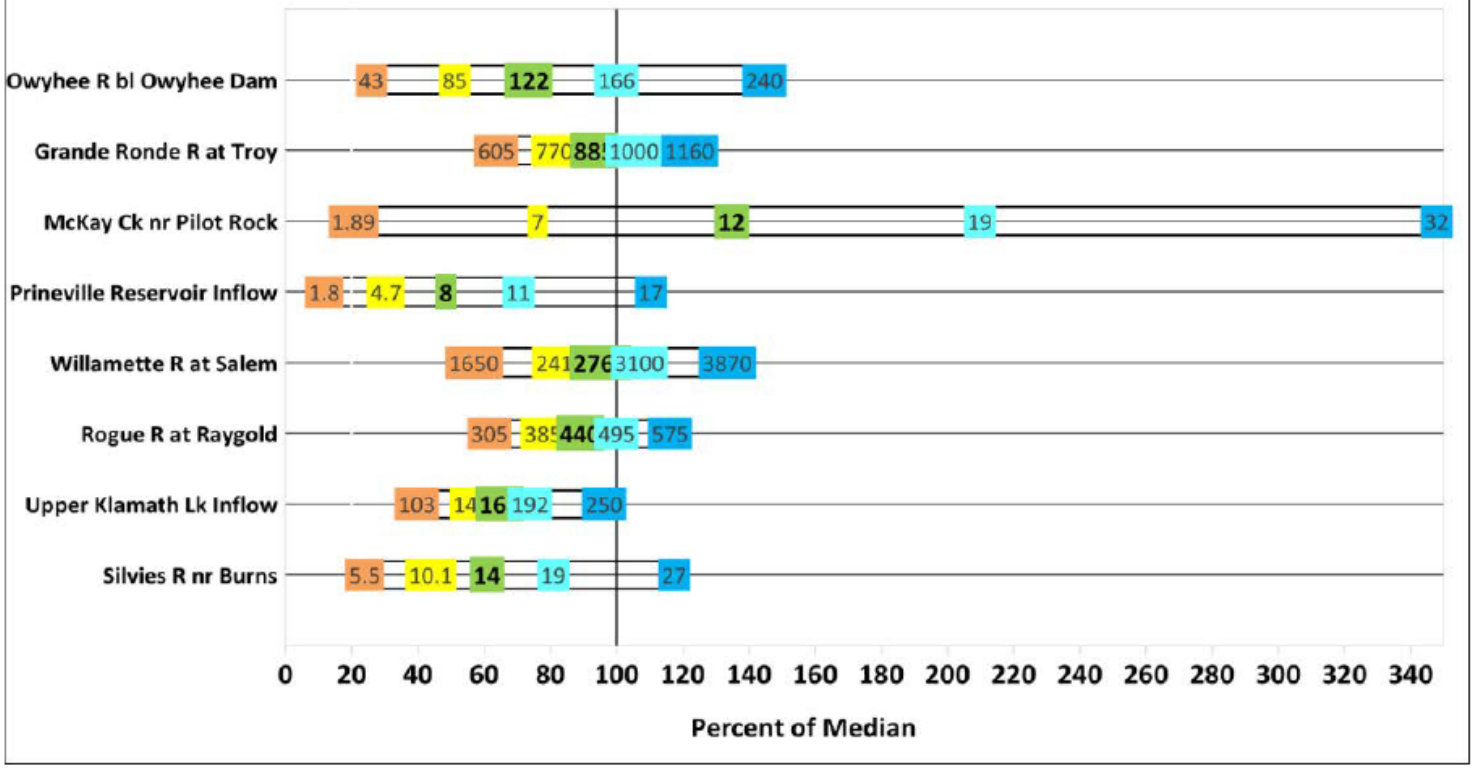
Legend:	←----------Drier----------Future Conditions----------Wetter----------→				
90% Exceedance Forecast (KAF)	**70% Exceedance Forecast (KAF)**	**50% Exceedance Forecast (KAF)**	**30% Exceedance Forecast (KAF)**	**10% Exceedance Forecast (KAF)**
There is a 90% chance that flows will exceed this volume.	There is a 70% chance that flows will exceed this volume.	There is a 50% chance that flows will exceed this volume.	There is a 30% chance that flows will exceed this volume.	There is a 10% chance that flows will exceed this volume.

May 2022

Summary of Streamflow Forecasts across Oregon

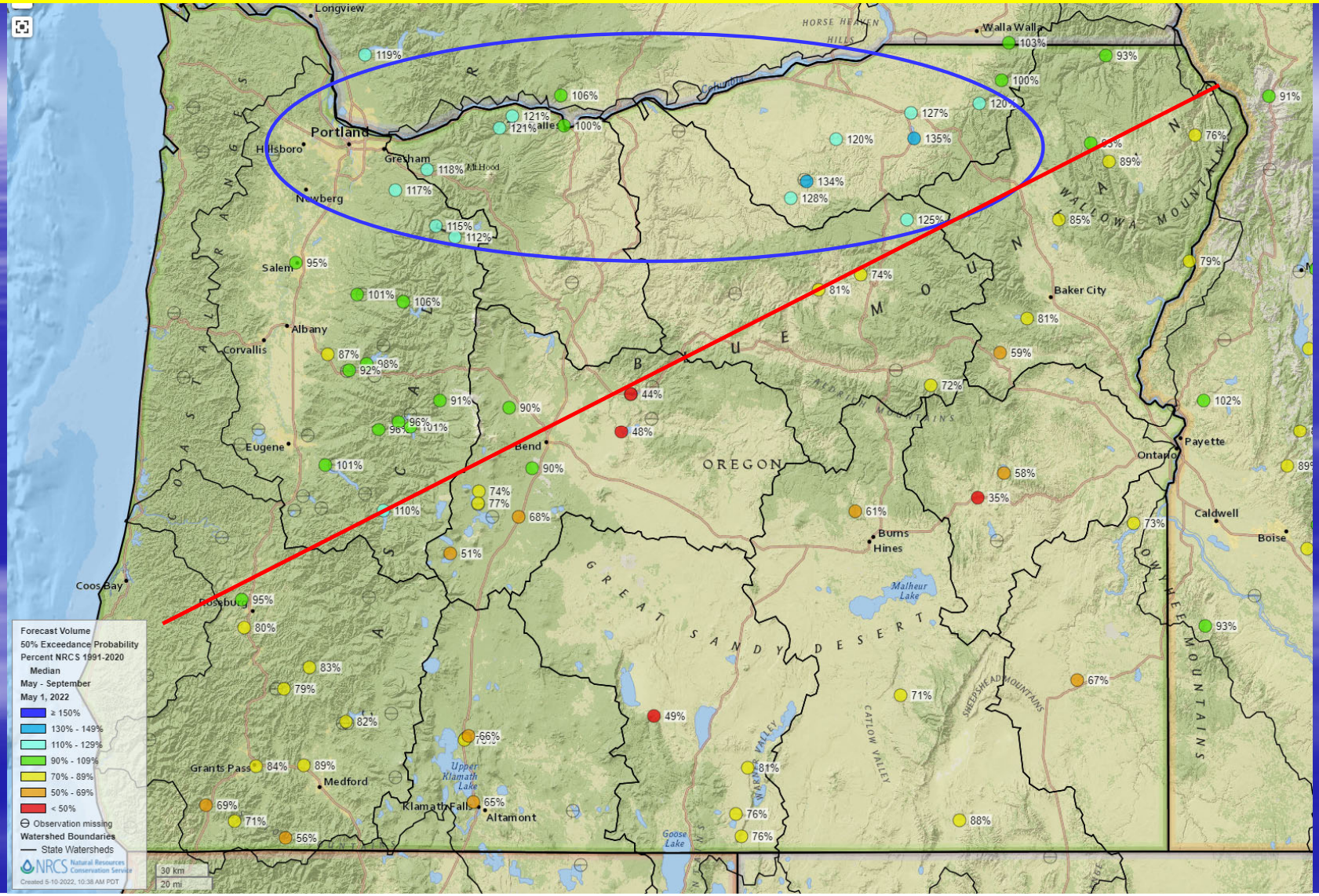
May through September Forecast Volumes at a Selection of Streamflow Points

(Volumes listed in KAF)



Legend:	←----------Drier----------**Future Conditions**----------Wetter----------→			
90% Exceedance Forecast (KAF)	**70% Exceedance Forecast (KAF)**	**50% Exceedance Forecast (KAF)**	**30% Exceedance Forecast (KAF)**	**10% Exceedance Forecast (KAF)**
There is a 90% chance that flows will exceed this volume.	There is a 70% chance that flows will exceed this volume.	There is a 50% chance that flows will exceed this volume.	There is a 30% chance that flows will exceed this volume.	There is a 10% chance that flows will exceed this volume.

May 1, 2022, Streamflow Volume Forecast (MAY – SEP) % of 1991-2020 Median 50% Exceedance Probability



Thank you

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Oregon Water Supply Availability Committee May 11, 2022

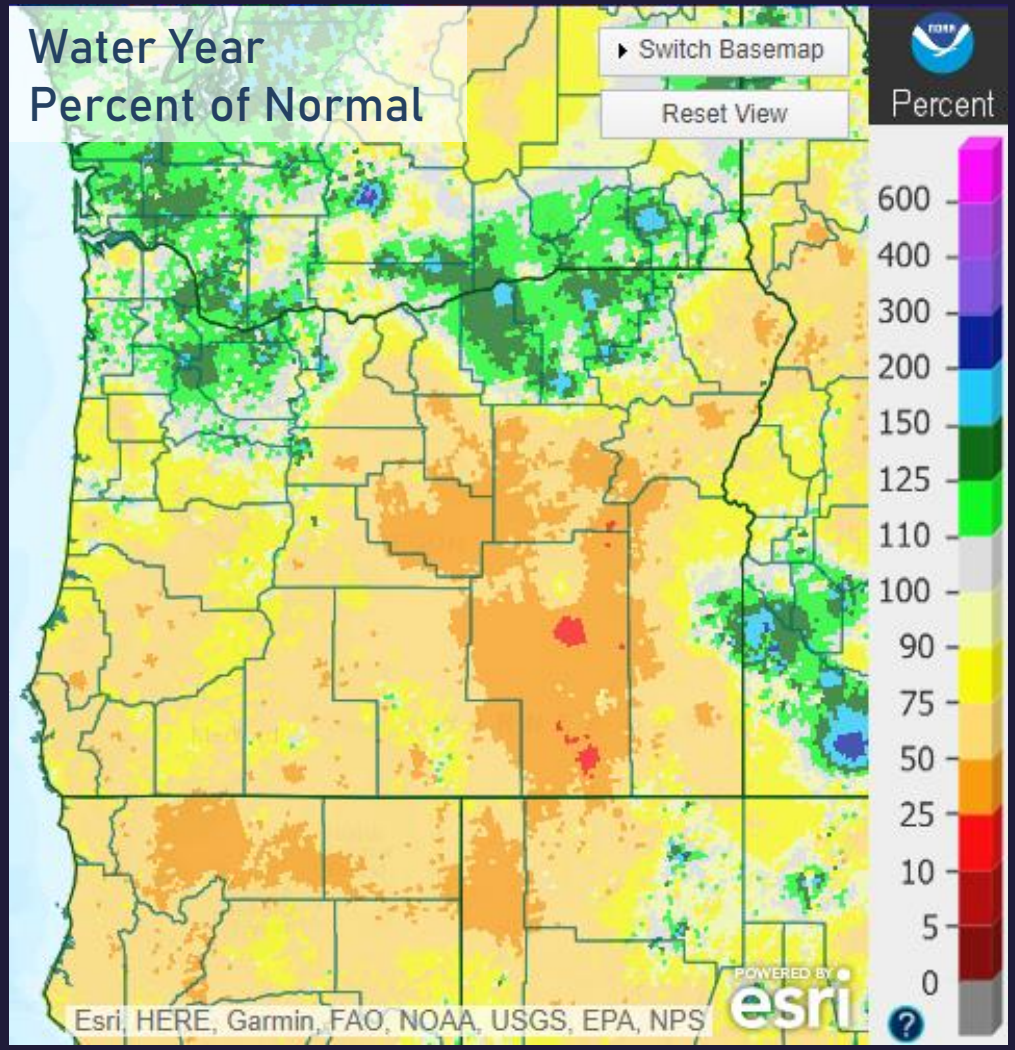
Silver Burn Snow Course
April 28, 2022
Jackson County
Elevation 3,680’
SWE = 2.3” Median = 0.0”

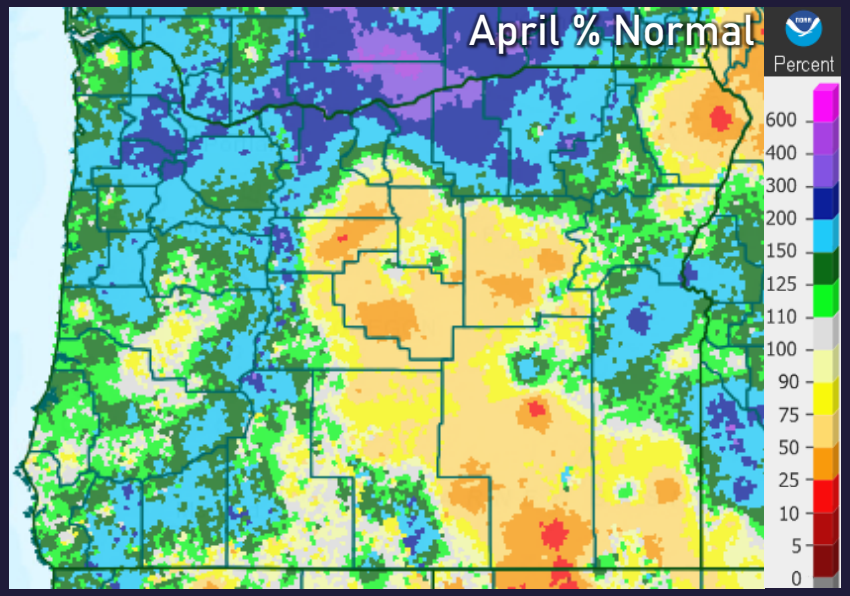
H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviatt@usda.gov
541-429-2359

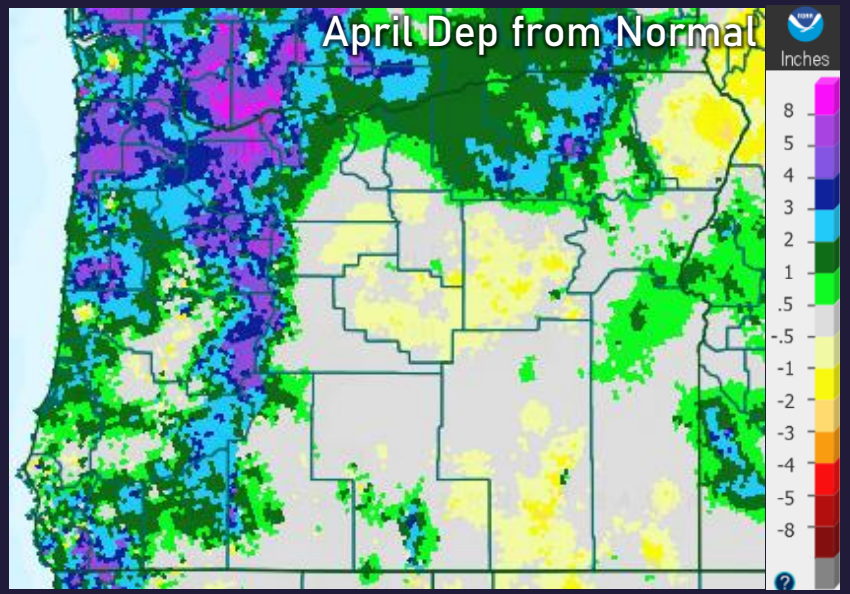
May 2022 Update for Precipitation & Temperatures

Andy Bryant
Service Hydrologist
NOAA/NWS Portland
Weather Forecast Office

Precipitation





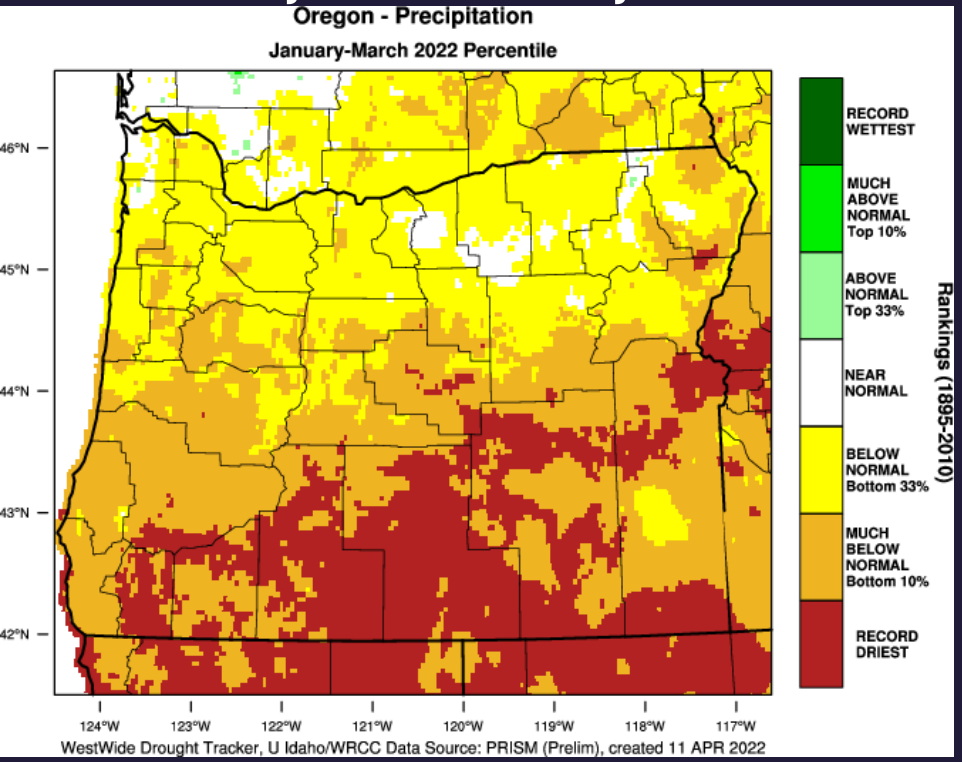


Precipitation Data as of May 10, 2022

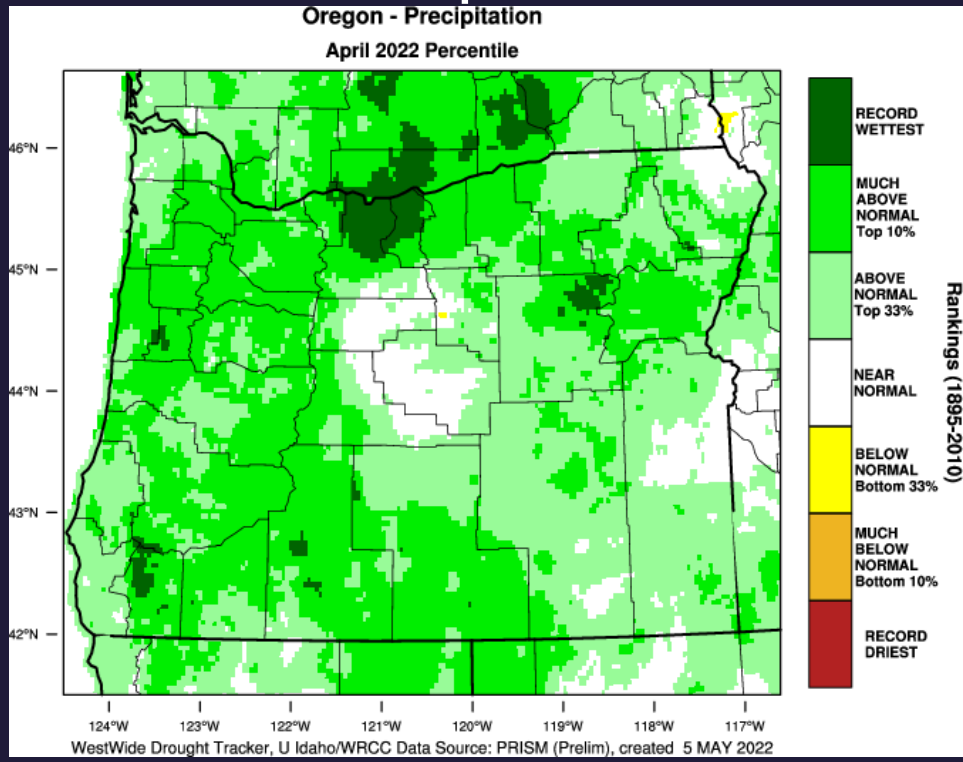
water.weather.gov/precip/index.php

Precipitation – Percentile / Ranking

January + February + March



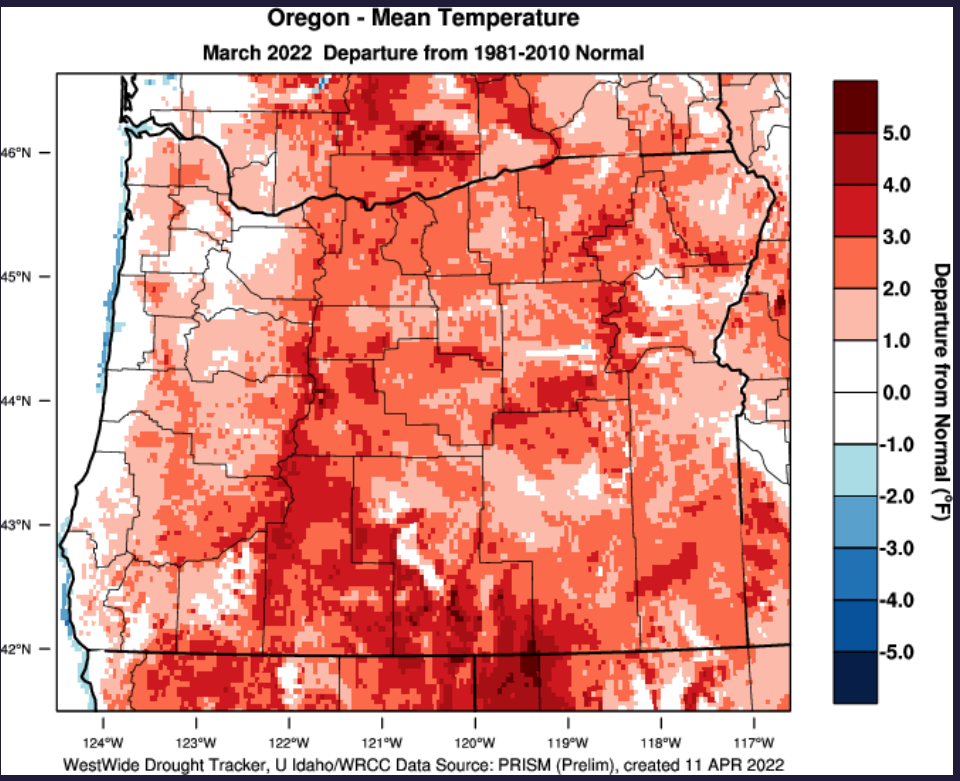
April



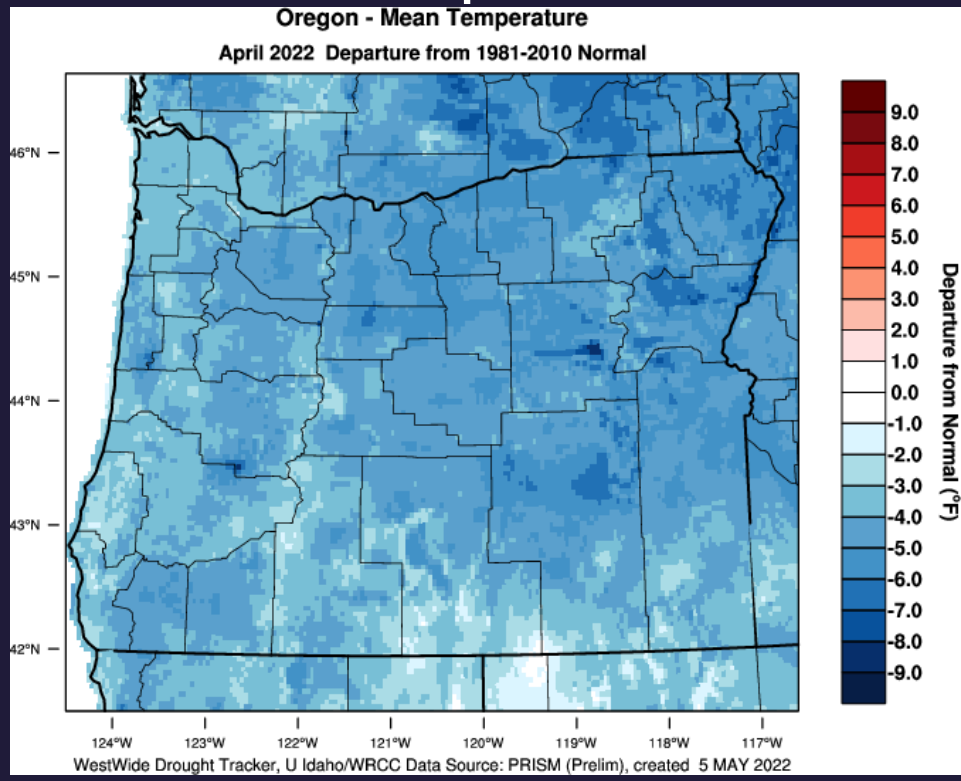
https://wrcc.dri.edu/wwdt/index.php?region=pnw

Recent Temperatures

March



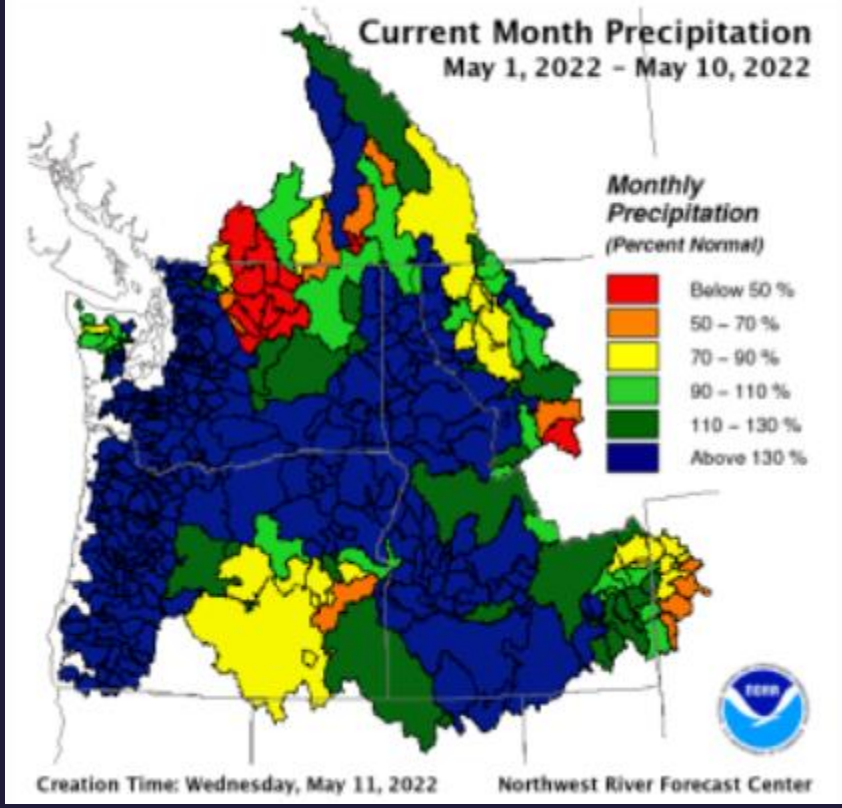
April



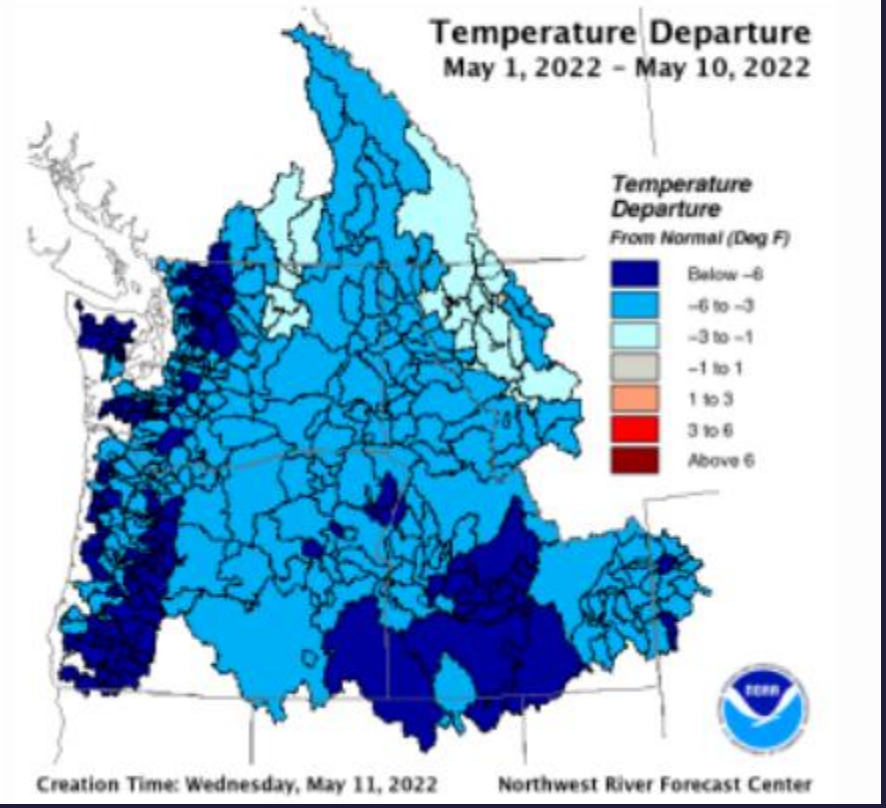
https://wrcc.dri.edu/wwdt/index.php?region=pnw

May thus far

Monthly Precipitation

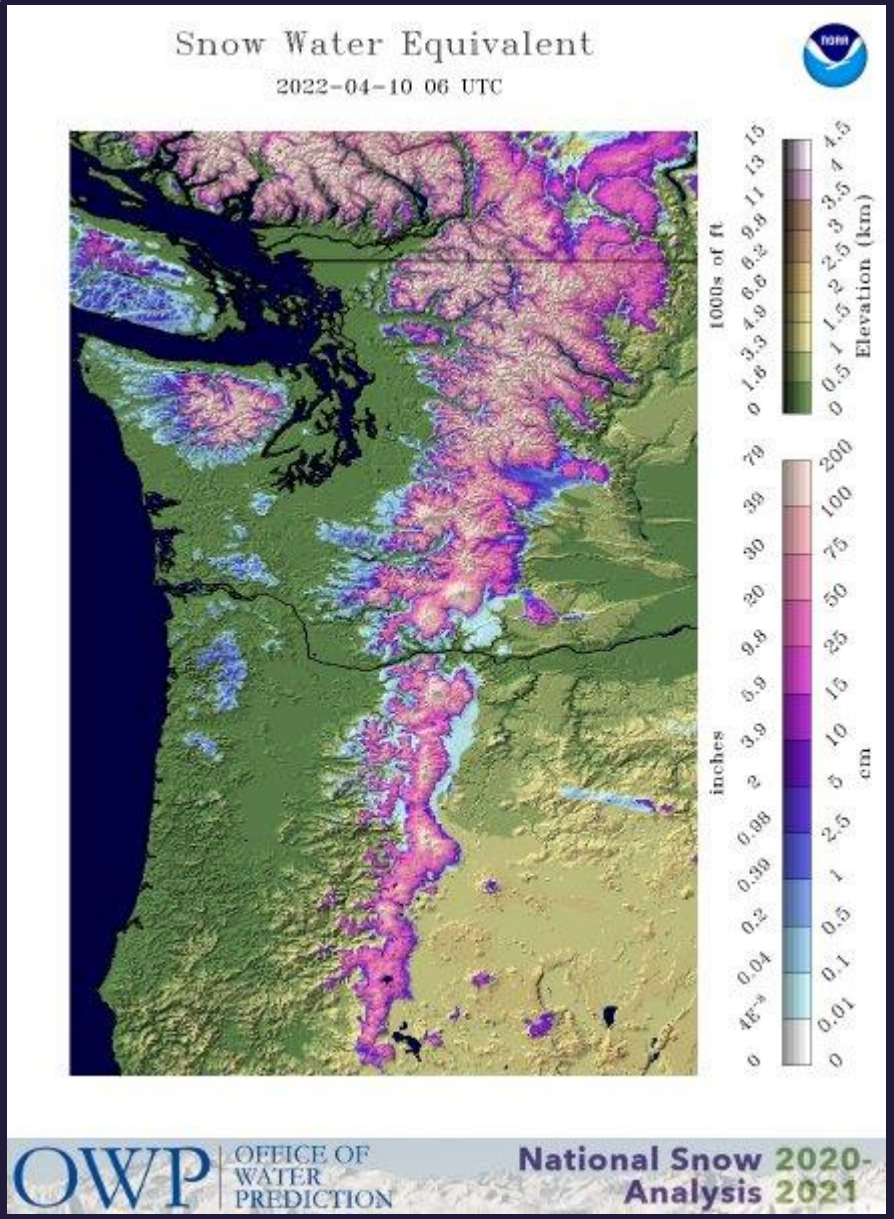


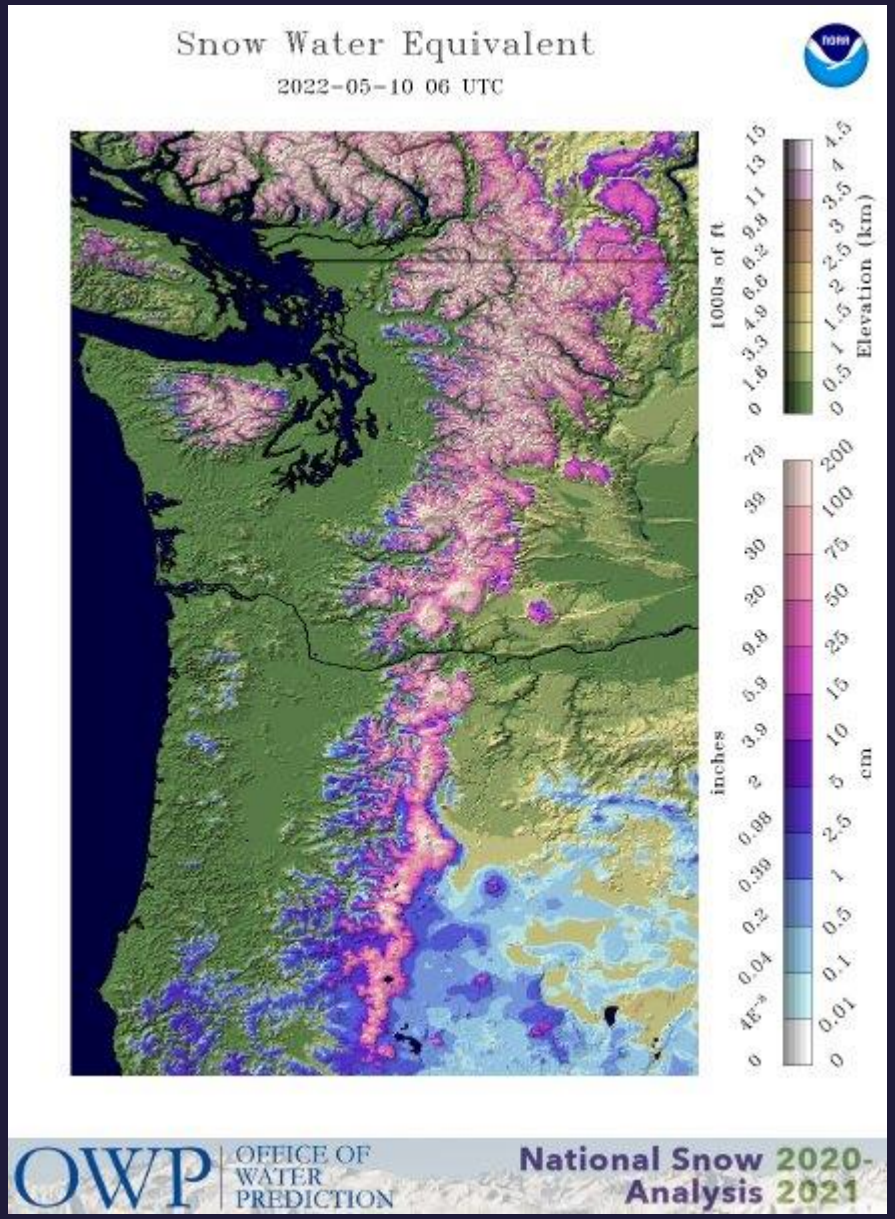
Temperature Departure



https://www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=2

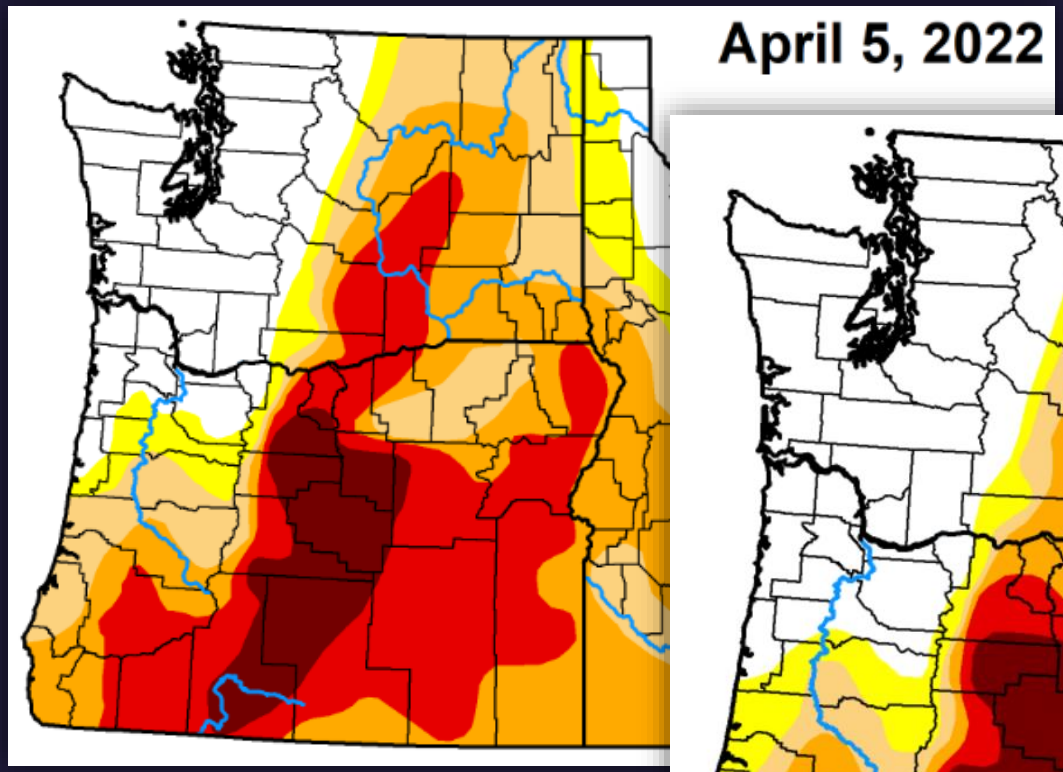
Snow Analysis from NOAA/NWS Remote Sensing Center

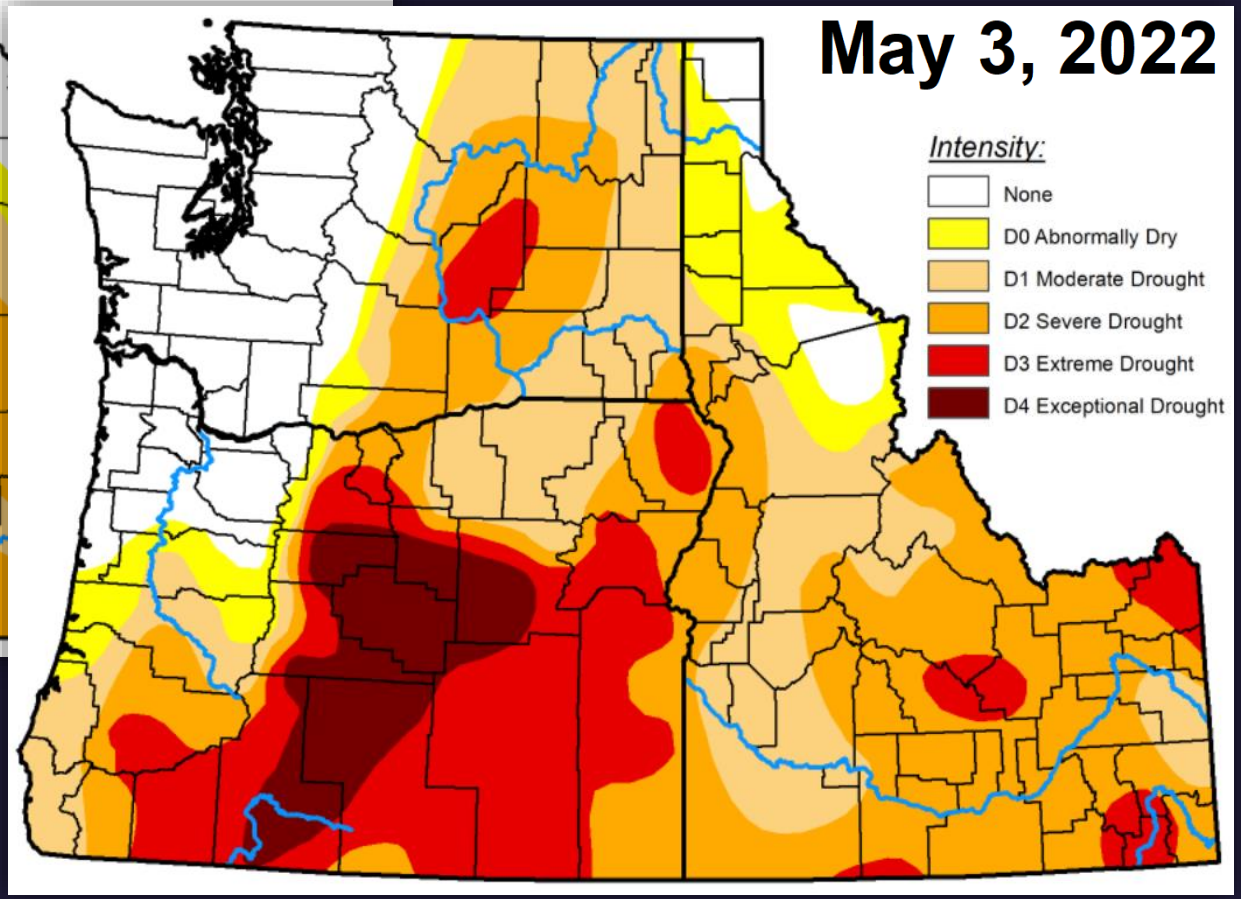




https://www.nohrsc.noaa.gov/nsa/index.html

Drought Monitor



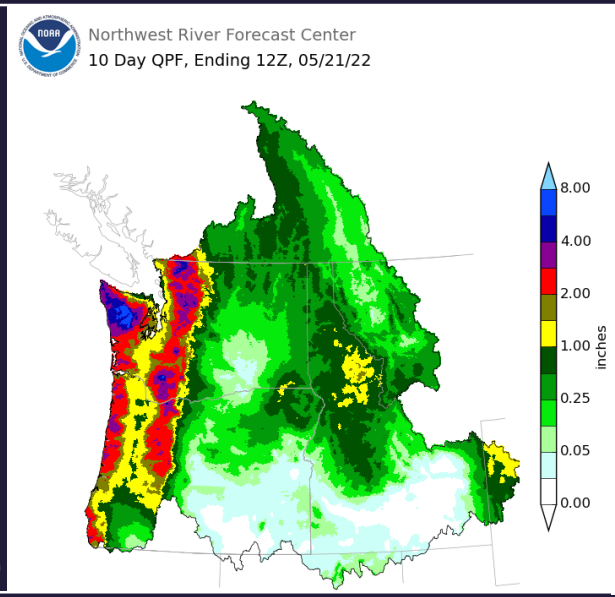


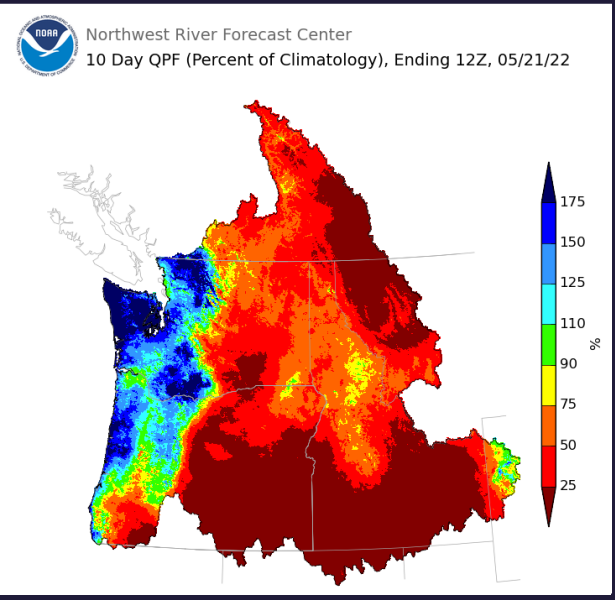
https://droughtmonitor.unl.edu

Mid May Outlook

NWRFC
10-DAY
PRECIPITATION
FORECAST

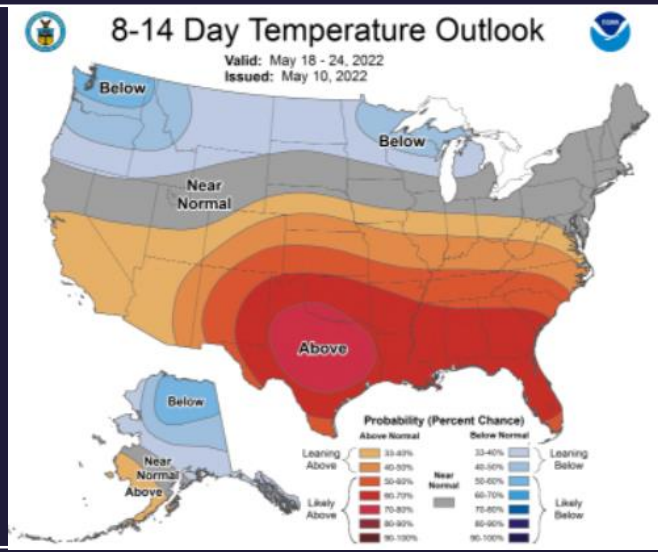
www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php

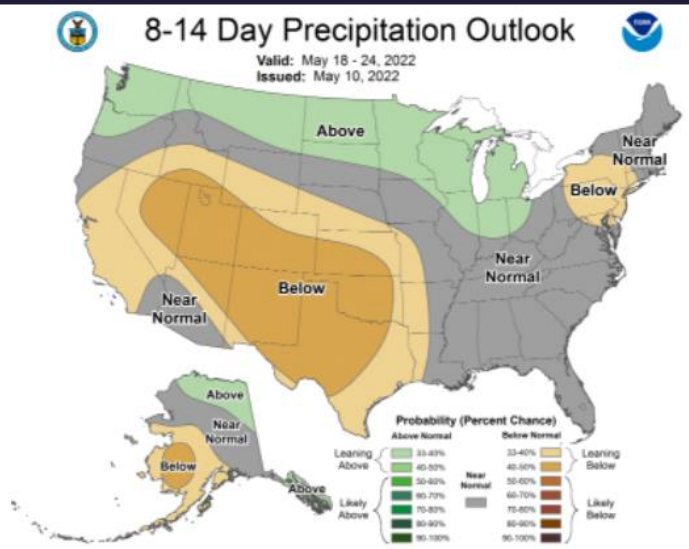




CPC
8 – 14 DAY
OUTLOOK

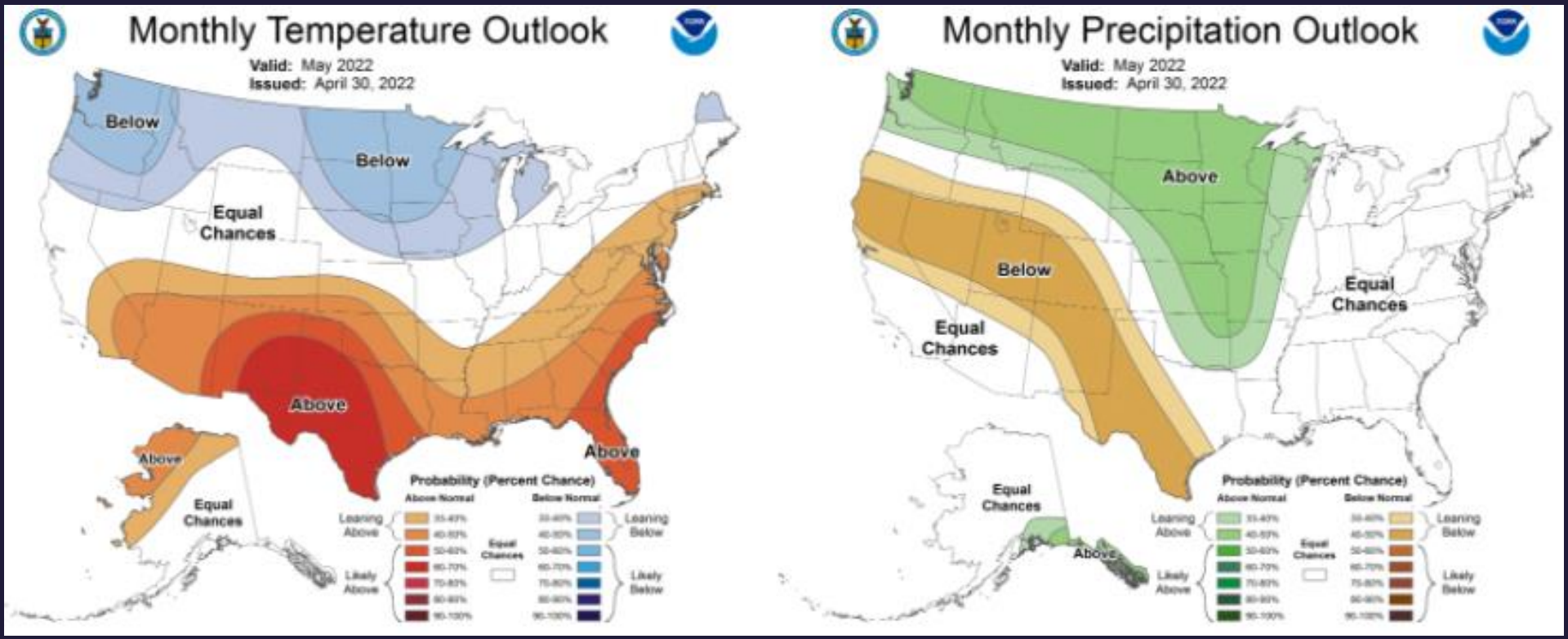
www.cpc.ncep.noaa.gov





Climate Prediction Center Outlook

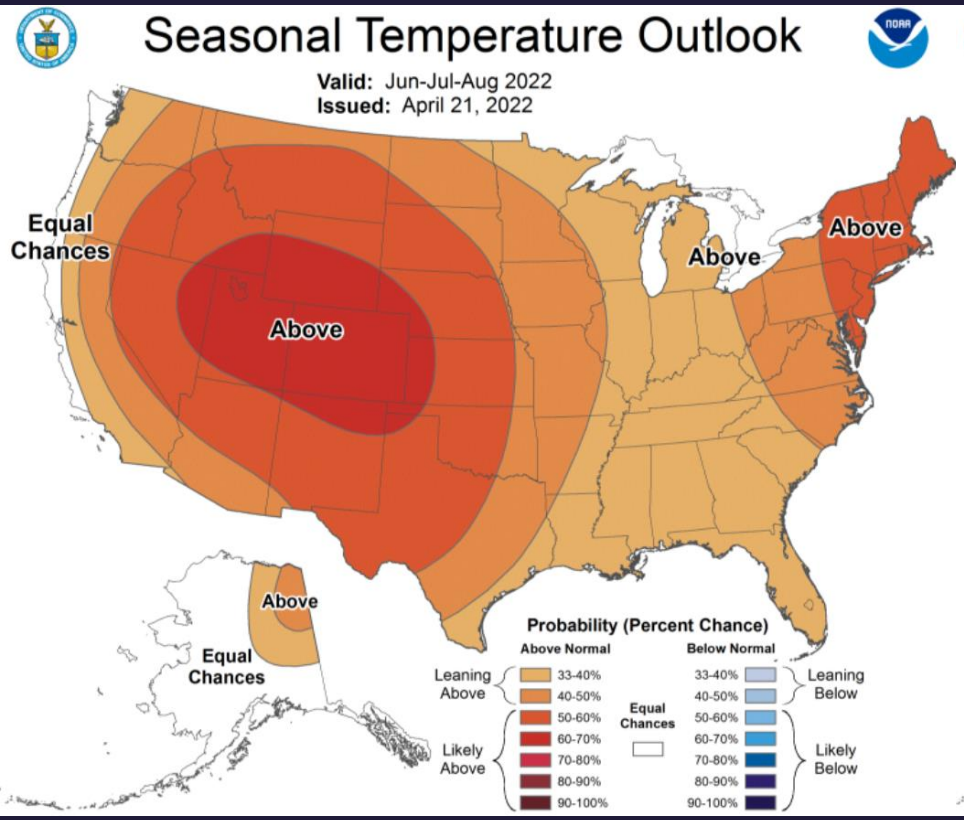
May 2022

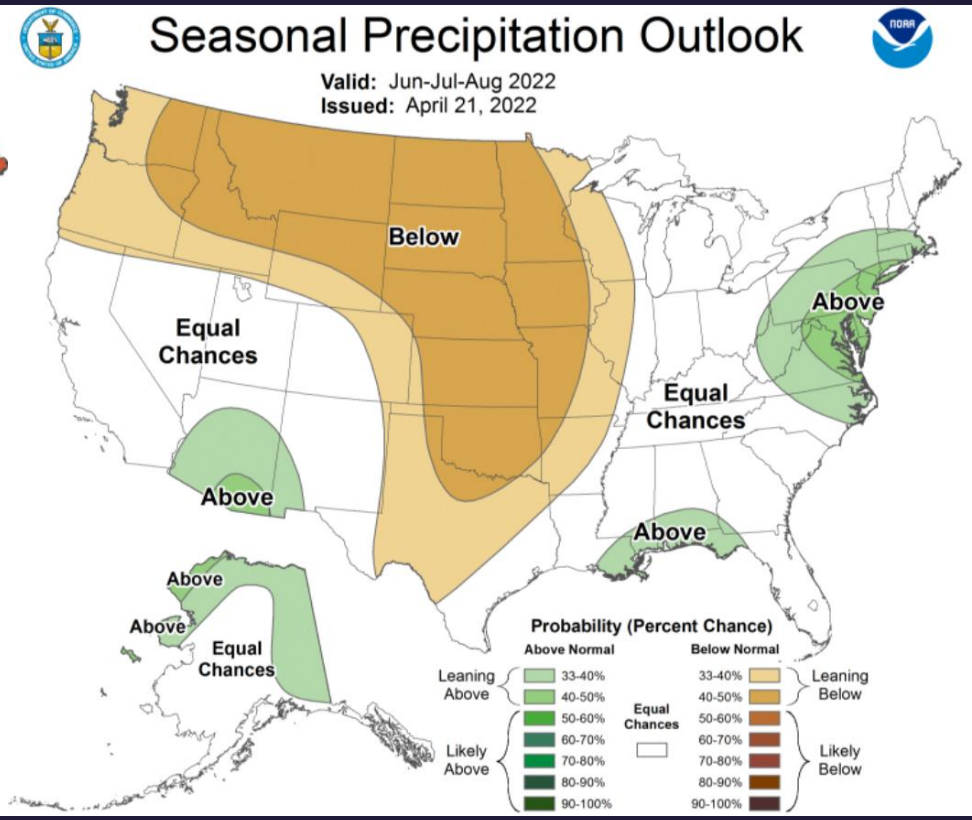


www.cpc.ncep.noaa.gov

Climate Prediction Center Outlook

June-July-August 2022

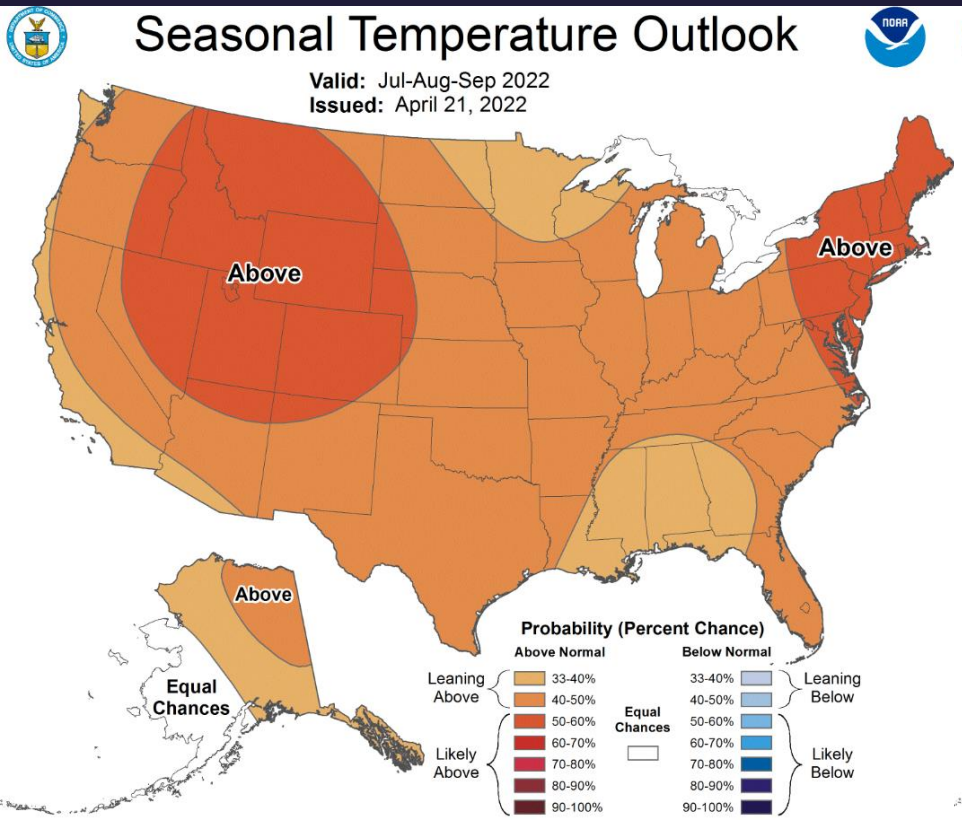


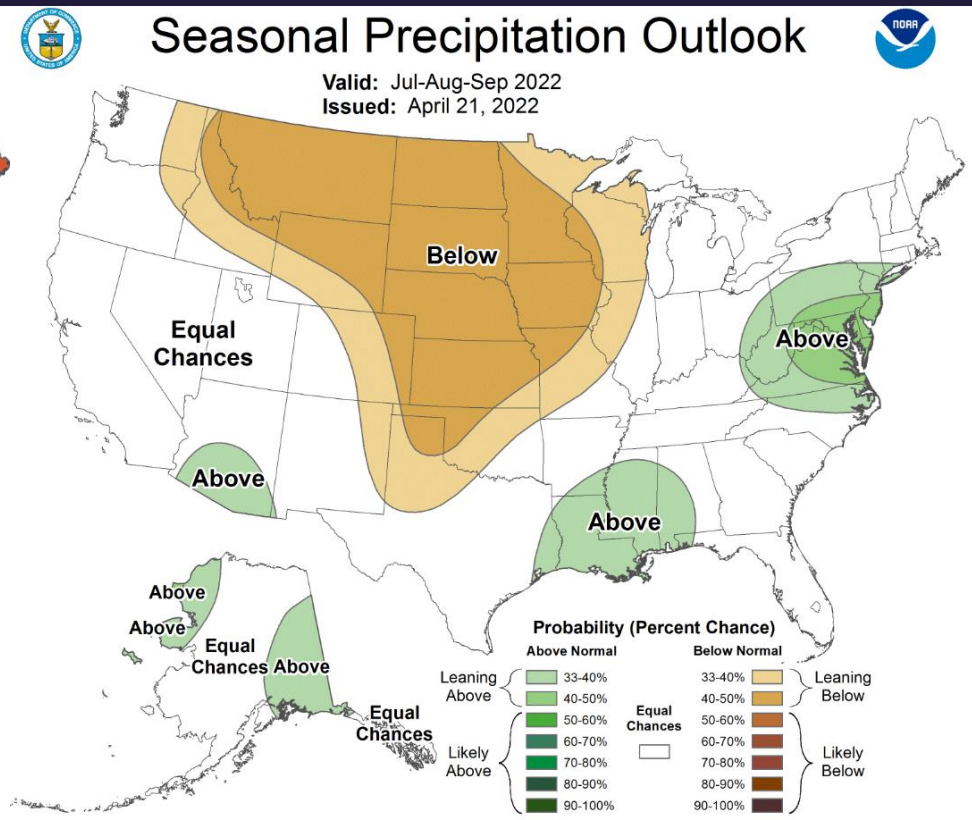


www.cpc.ncep.noaa.gov

Climate Prediction Center Outlook

July-August-September 2022

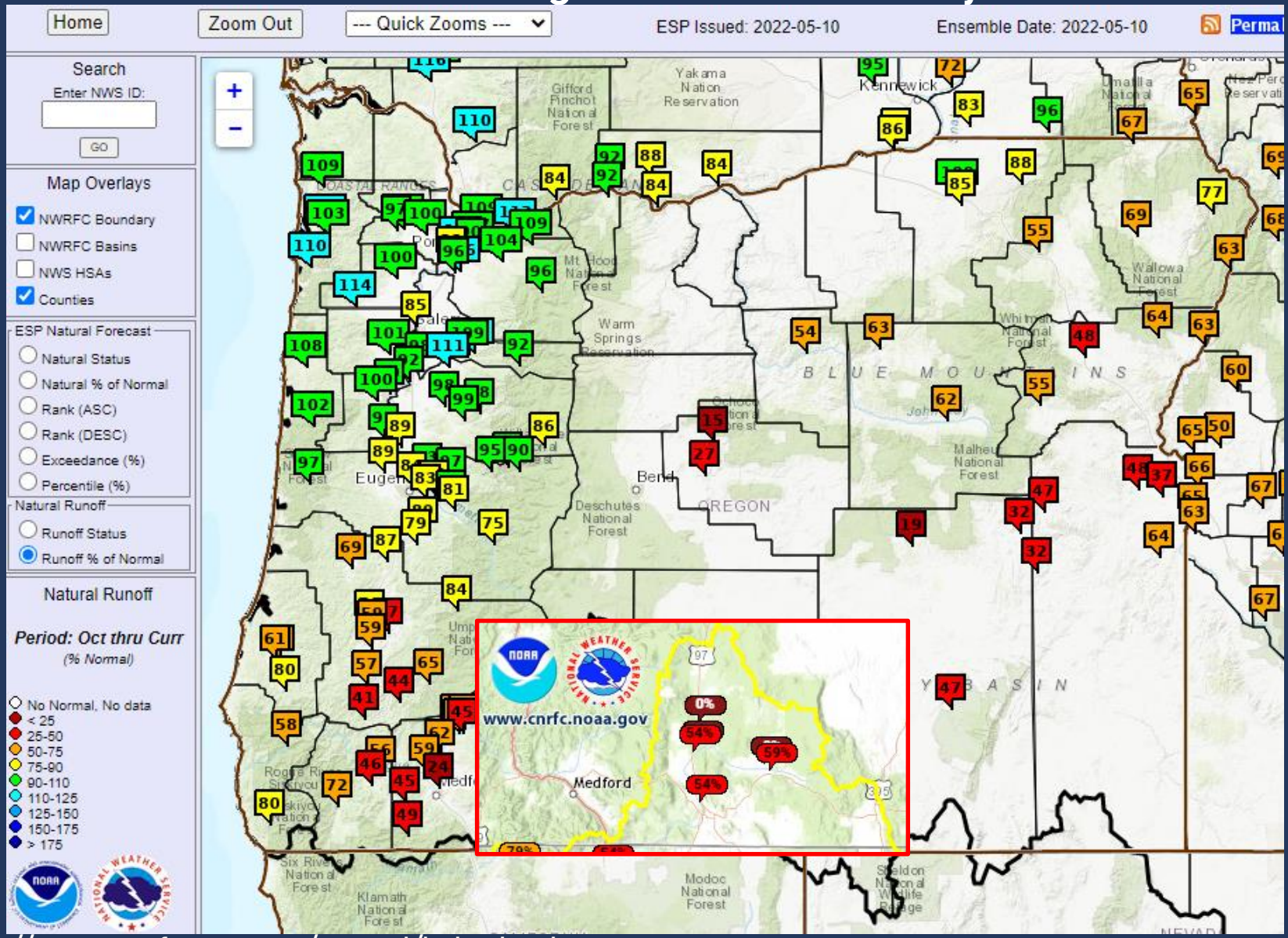




www.cpc.ncep.noaa.gov

Current WY Runoff

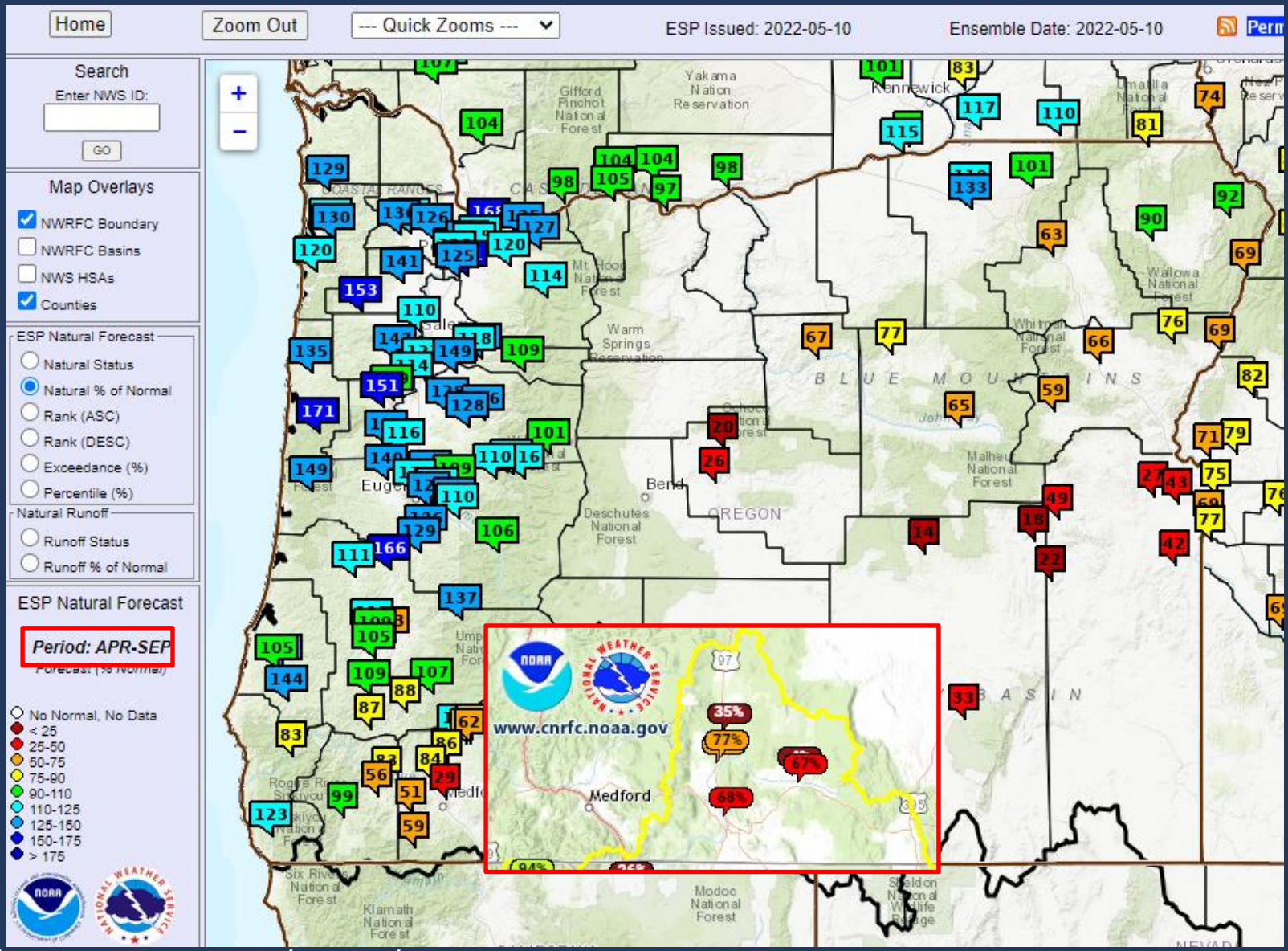
% of Average from Oct 1 – May 10



https://www.nwrfc.noaa.gov/natural/index.html

Seasonal Volume Forecast

April – September ESP Natural - % of Average



https://www.nwrfc.noaa.gov/natural/index.html

Streamflow WY Volume Forecast

Willamette at Salem

WILLAMETTE - AT SALEM (SLMO3)
Forecasts for Water Year 2022

Official Water Supply

ESP with 10 Days QPF ***Ensemble:*** 2022-05-10 ***Issued:*** 2022-05-10

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	5401	5646	110	6345	5119
APR-JUL	4949	5177	114	5821	4554
JAN-SEP	10636	10881	89	11580	12224
JAN-JUL	10184	10412	89	11056	11659
OCT-SEP	14619	14864	90	15563	16605

Experimental Water Supply

HEFS with 15 days EQPF ***Ensemble:*** 2022-05-10 ***Issued:*** 2022-05-10

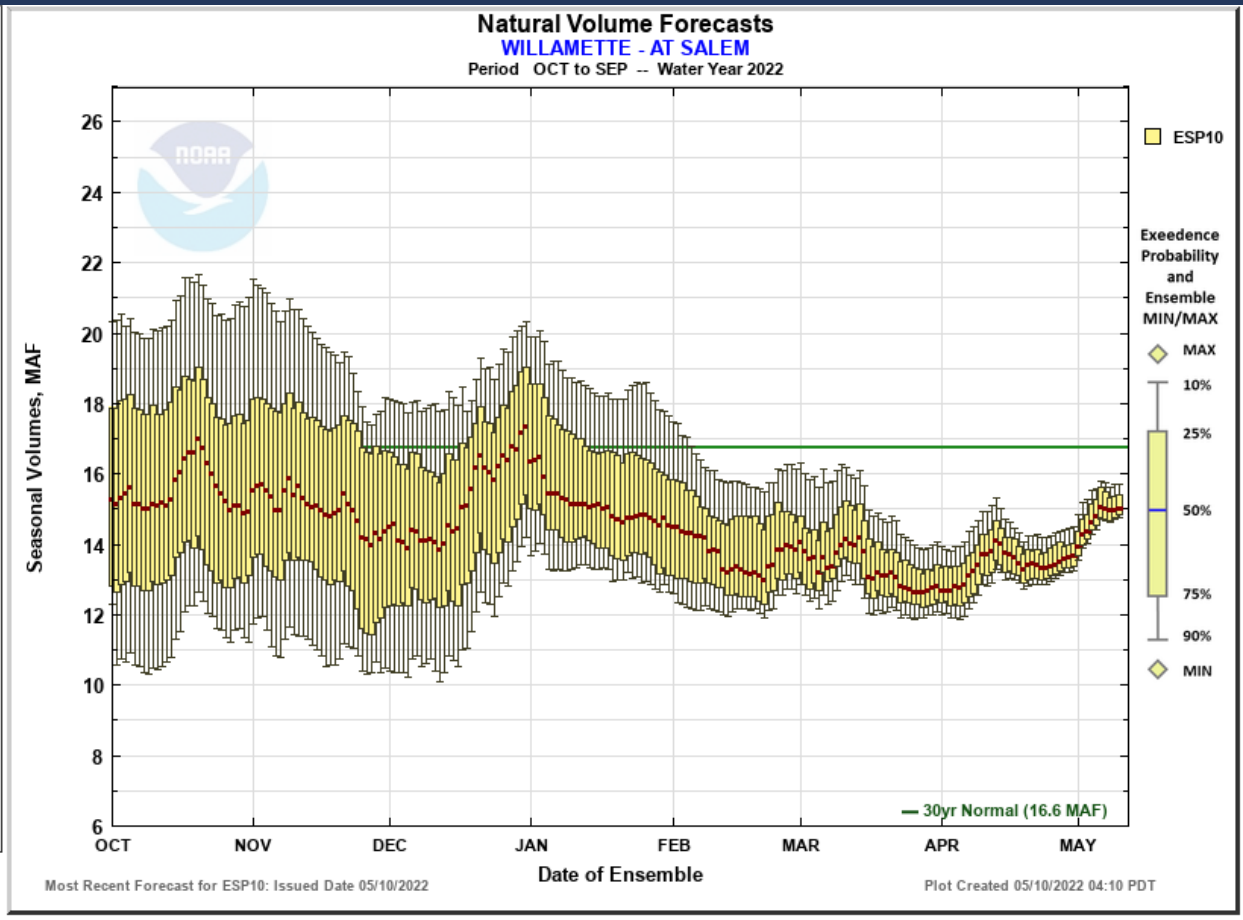
APR-SEP	5408	5891	115	6828	5119
APR-JUL	4926	5368	118	6301	4554
JAN-SEP	10643	11126	91	12063	12224
JAN-JUL	10161	10603	91	11536	11659
OCT-SEP	14626	15109	91	16046	16605

Reference

ESP with 0 Days QPF ***Ensemble:*** 2022-05-10 ***Issued:*** 2022-05-10

APR-SEP	5335	5816	114	6735	5119
APR-JUL	4878	5276	116	6187	4554
JAN-SEP	10570	11051	90	11970	12224
JAN-JUL	10114	10511	90	11422	11659
OCT-SEP	14553	15034	91	15954	16605

Move the mouse over the desired "Forecast Period" to display a graph.



Max Scale | Scale To Data | Scale To Last 45 Days | Show Min/Max Ensemble Volume | Show Tooltips Help

https://www.nwrfc.noaa.gov/natural/plot/nat_forecasts.php?id=SLMO3

Streamflow WY Volume Forecast

ESP 10-day

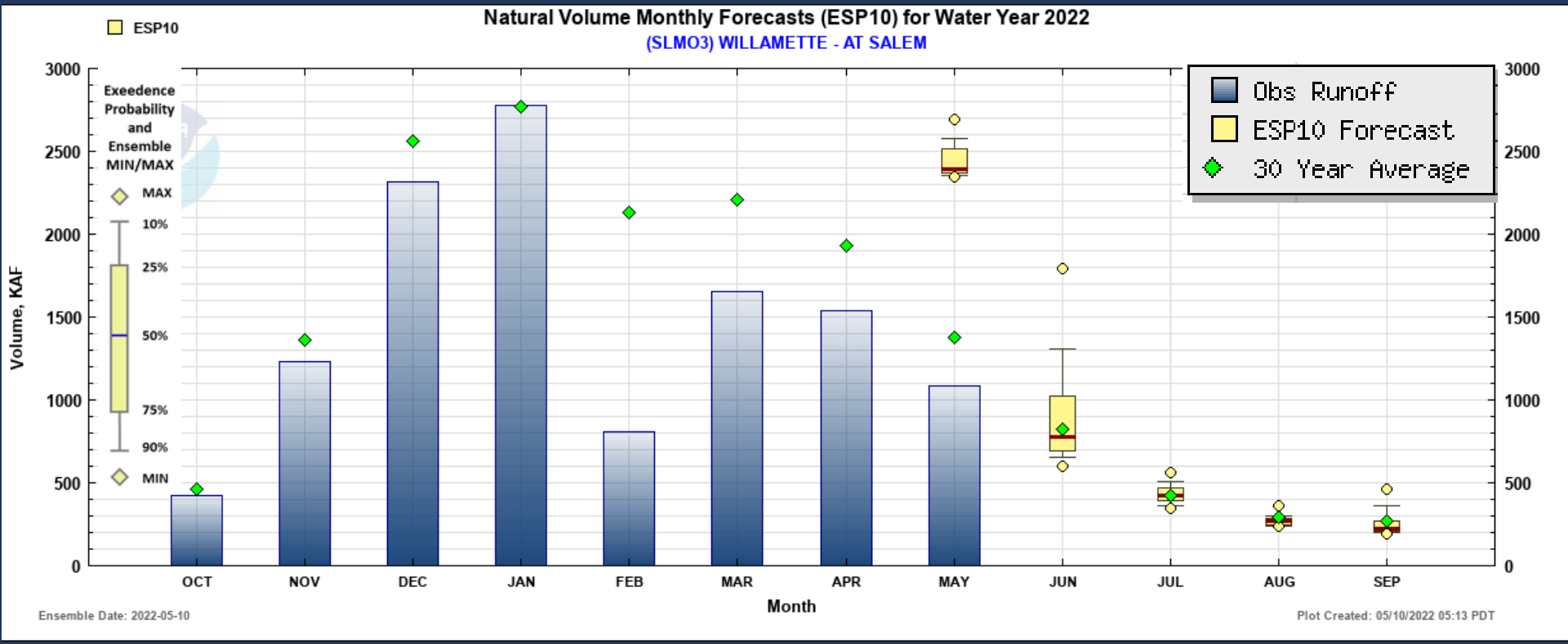
Site	Last month's 10-day forecast % normal	This month's 10-day forecast % normal
Willamette R at Salem	82	90
Rogue R at Raygold	62	66
Umatilla R nr Umatilla	78	93
John Day R at Service Creek	58	60
Owyhee Dam	69	58

Mostly improvements, with the most pronounced in the North (i.e., Willamette and Umatilla).

Owyhee Dam precipitation did not translate to runoff.

Streamflow WY Monthly Volume Forecast

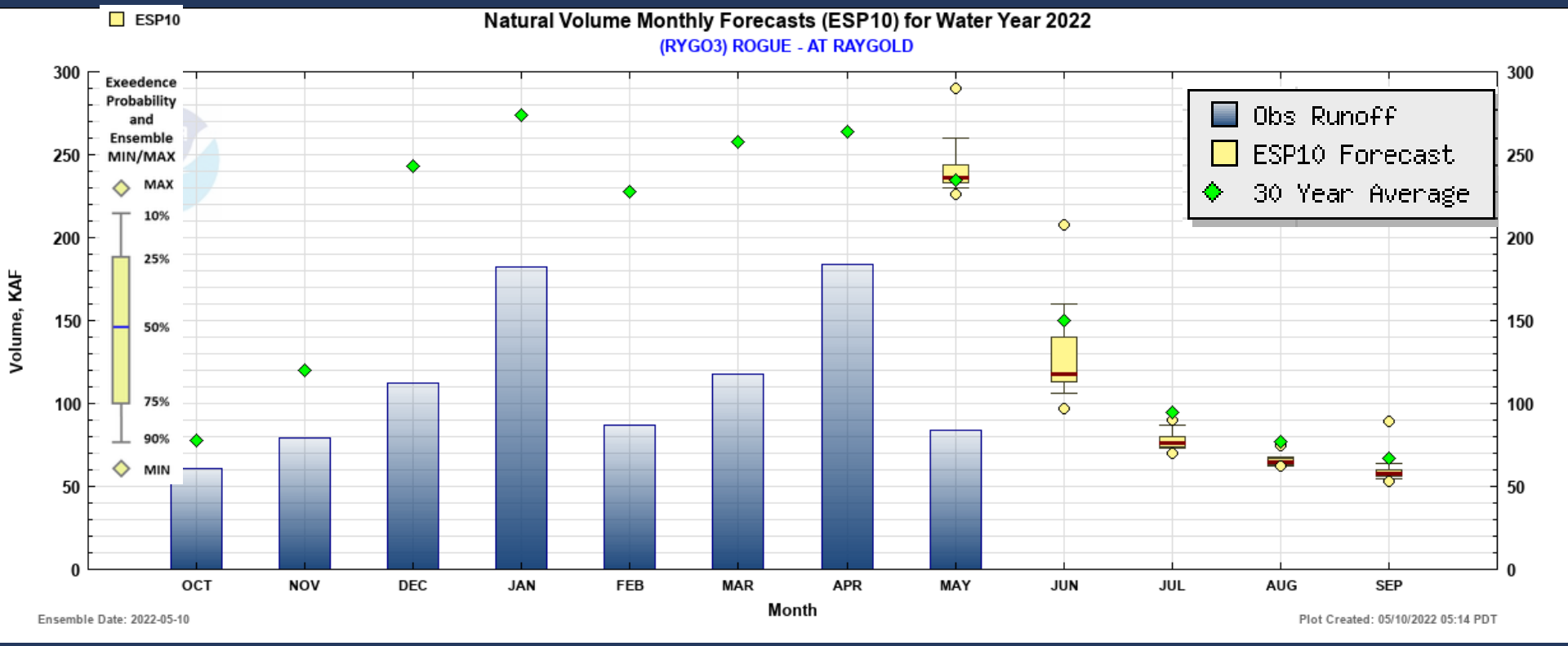
Willamette R at Salem



https://www.nwrfc.noaa.gov/natural/plot/monthly/monthly_natural_forecasts.php?id=SLMO3

Streamflow WY Monthly Volume Forecast

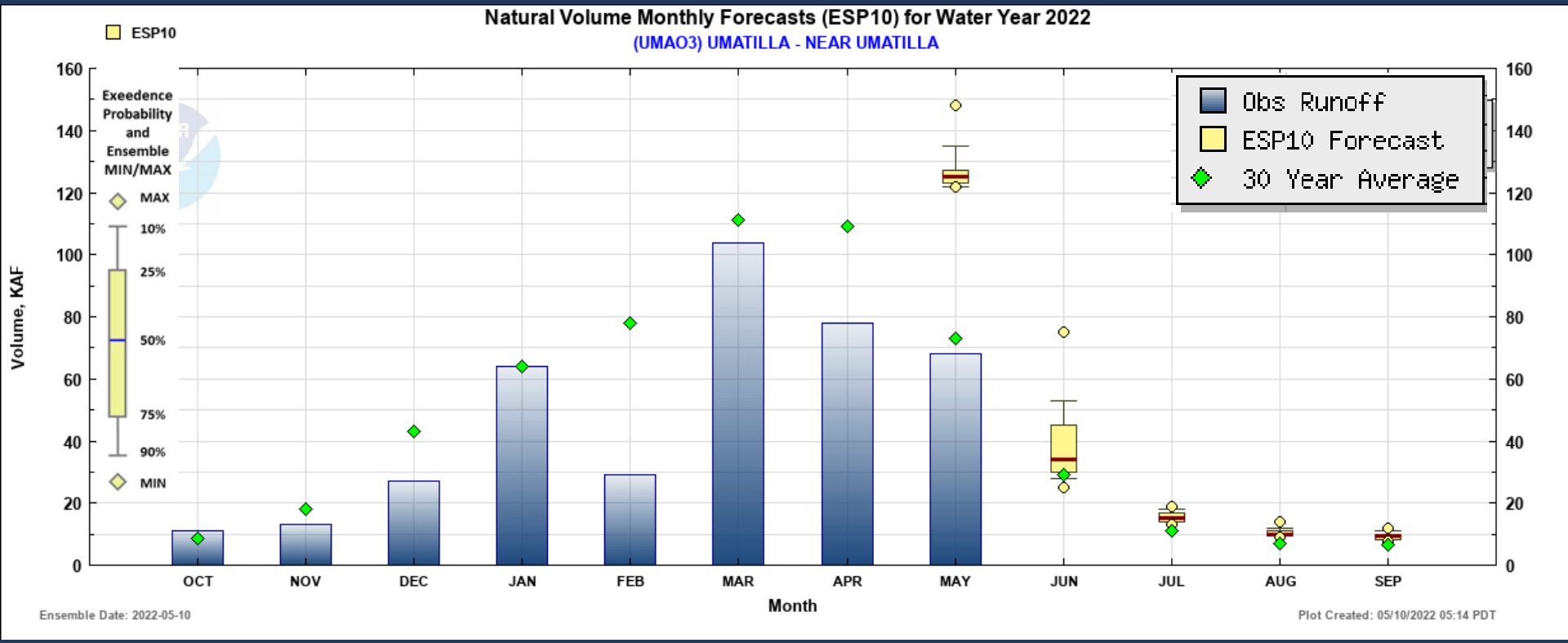
Rogue R near Raygold



https://www.nwrfc.noaa.gov/natural/plot/monthly/monthly_natural_forecasts.php?id=RYGO3

Streamflow WY Monthly Volume Forecast

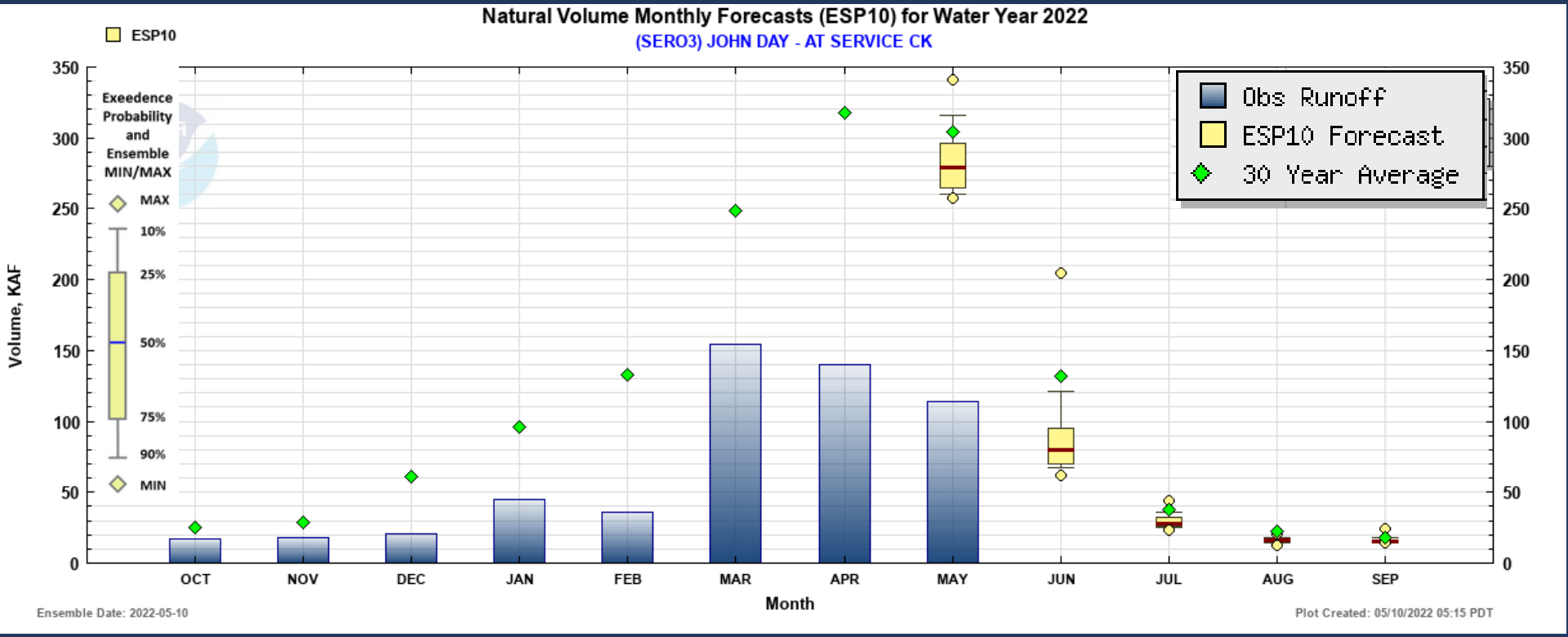
Umatilla R nr Umatilla



https://www.nwrfc.noaa.gov/natural/plot/monthly/monthly_natural_forecasts.php?id=UMAO3

Streamflow WY Monthly Volume Forecast

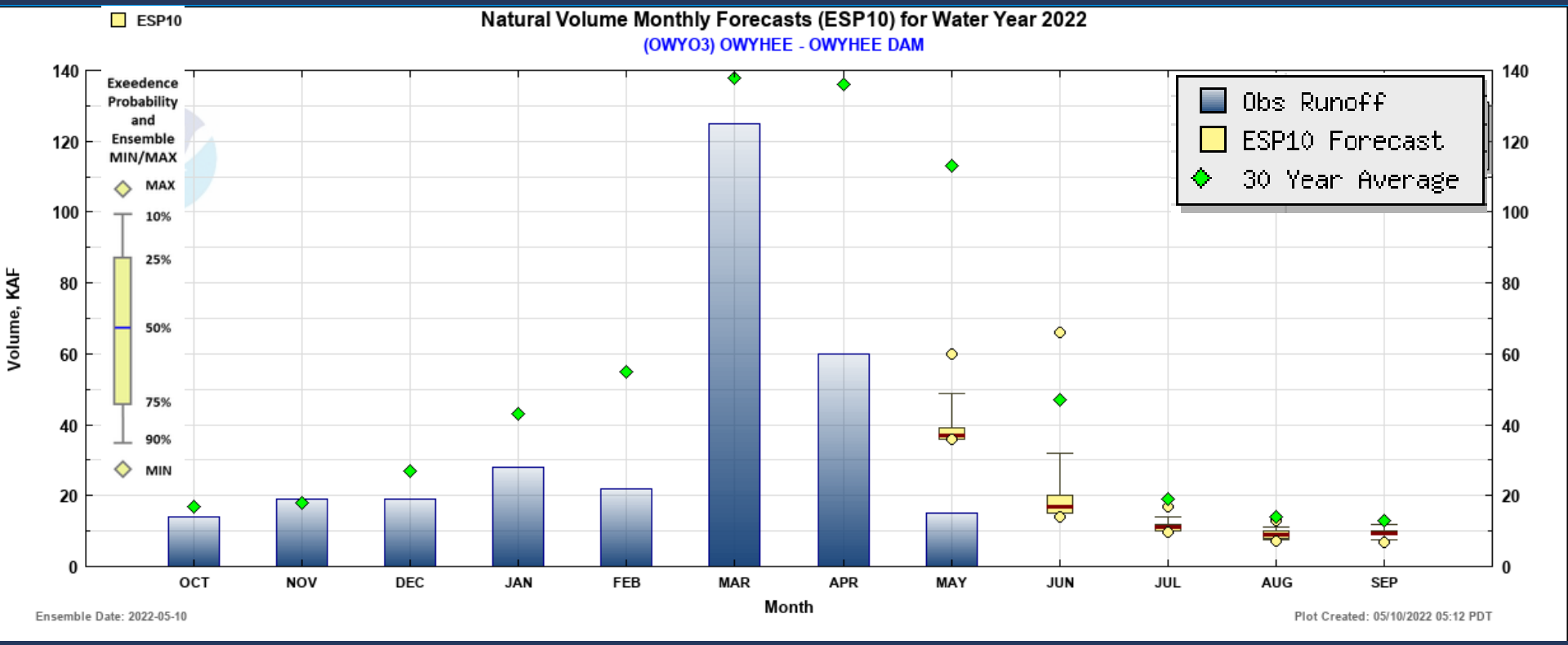
John Day R at Service Creek



https://www.nwrfc.noaa.gov/natural/plot/monthly/monthly_natural_forecasts.php?id=SERO3

Streamflow WY Monthly Volume Forecast

Owyhee Dam



https://www.nwrfc.noaa.gov/natural/plot/monthly/monthly_natural_forecasts.php?id=OWYO3

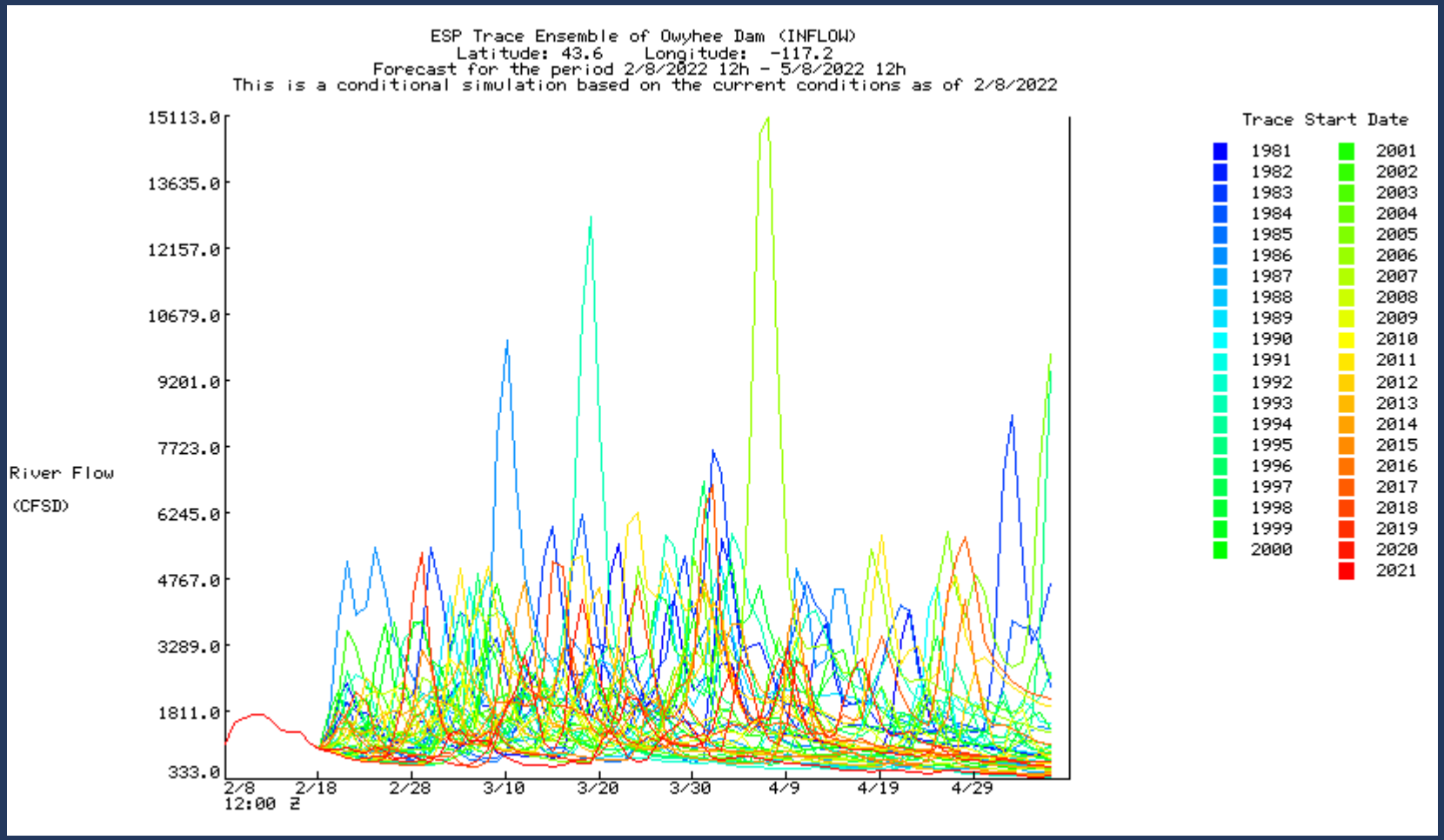
NWRFC Water Supply Briefings Schedule

2022 Schedule for *Live* Water Supply Briefings					
Jan	Feb	Mar	Apr	May	June
6	3	3	7	5	2
All presentations held at 10:00am PDT/PST, unless noted otherwise					
Click here for Registration Information					

https://www.nwrfc.noaa.gov/water_supply/ws_schd.cgi?version=20190204v1

Extra slide- NWRFC ESP Traces

Owyhee Dam



https://www.nwrfc.noaa.gov/espadp/espadp.cgi

Oregon WSAC/DRC
Drought Status and Climate Updates
May 2022

Larry O'Neill

CEOAS Oregon State University

Oregon Climate Service

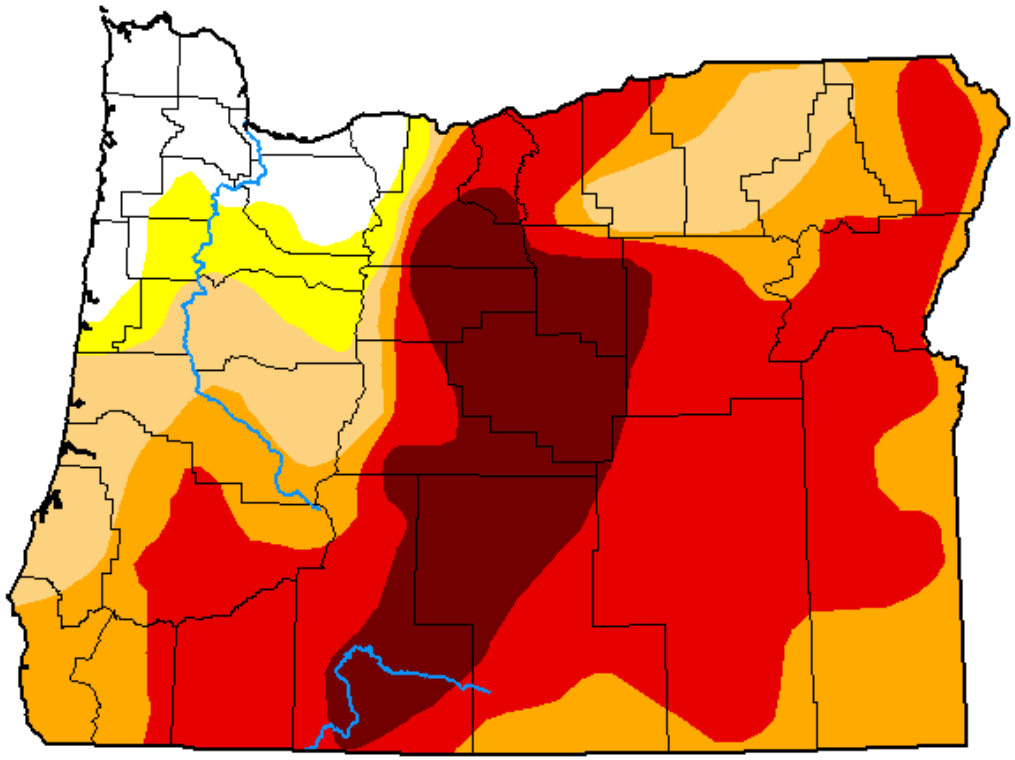
Wednesday, May 11, 2022

Oregon State University
College of Earth, Ocean, and Atmospheric Sciences

CCCRI

OCS Oregon Climate Service

U.S. Drought Monitor
Oregon



April 5, 2022
(Released Thursday, Apr. 7, 2022)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	7.16	92.84	88.10	75.88	54.05	15.01
Last Week *03-29-2022*	7.16	92.84	88.44	74.25	50.28	15.01
3 Months Ago *01-04-2022*	4.16	95.84	89.75	75.37	50.84	17.27
Start of Calendar Year *01-04-2022*	4.16	95.84	89.75	75.37	50.84	17.27
Start of Water Year *09-28-2021*	0.00	100.00	100.00	96.47	72.10	26.59
One Year Ago *04-06-2021*	17.73	82.27	65.94	41.68	13.22	1.48

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

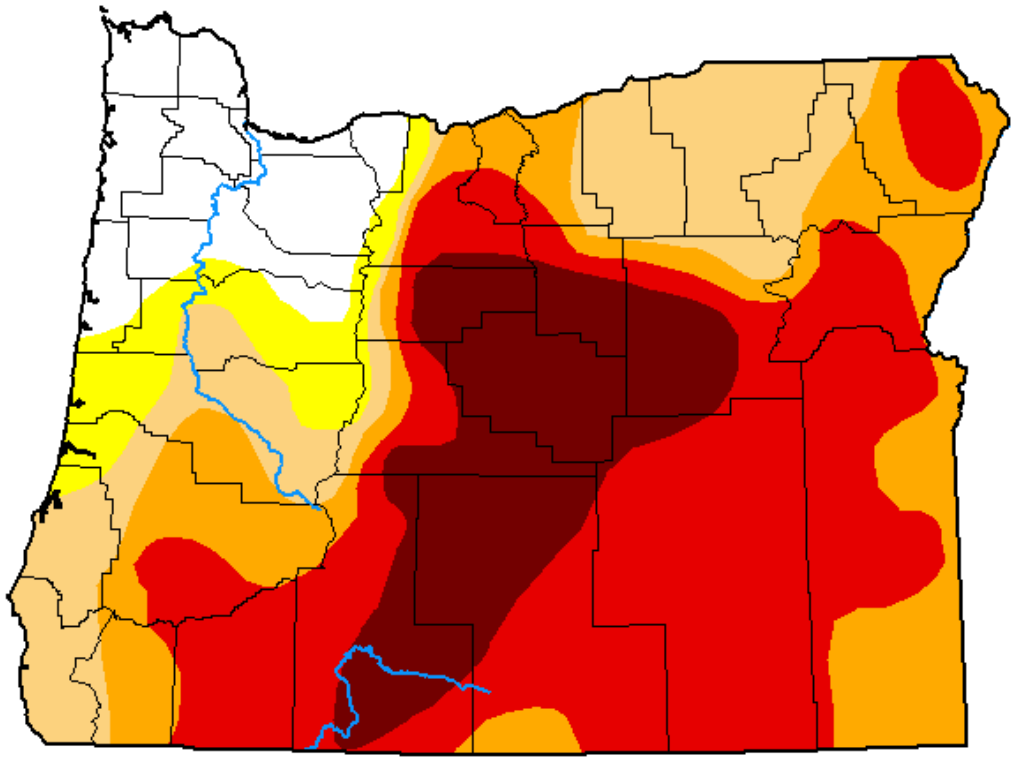
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Deborah Bathke
National Drought Mitigation Center

droughtmonitor.unl.edu

U.S. Drought Monitor
Oregon



May 3, 2022

(Released Thursday, May. 5, 2022)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	10.14	89.86	84.21	68.76	50.85	15.71
Last Week *04-26-2022*	9.08	90.92	86.14	72.31	53.12	17.30
3 Months Ago *02-01-2022*	4.87	95.13	88.12	74.05	42.05	16.22
Start of Calendar Year *01-04-2022*	4.16	95.84	89.75	75.37	50.84	17.27
Start of Water Year *09-28-2021*	0.00	100.00	100.00	96.47	72.10	26.59
One Year Ago *05-04-2021*	0.00	100.00	88.85	64.54	26.09	3.57

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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Author:

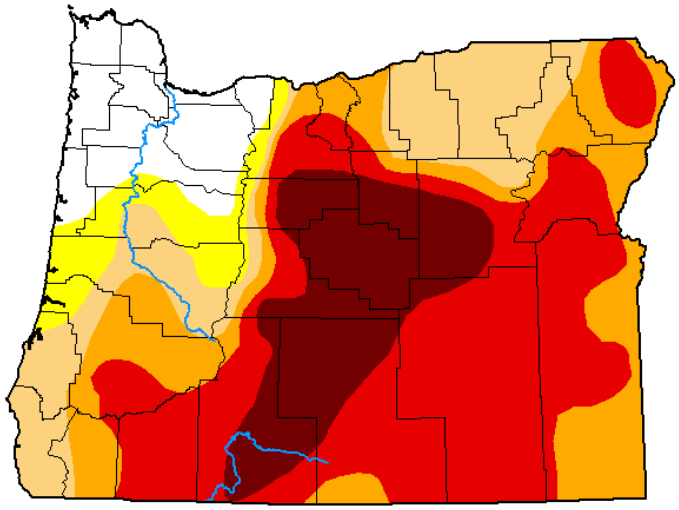
David Simeral
Western Regional Climate Center

droughtmonitor.unl.edu

Current % areal coverage:
None: 10%
D0: 6%
D1: 15%

U.S. Drought Monitor

Oregon



May 3, 2022

(Released Thursday, May. 5, 2022)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	10.14	89.86	84.21	68.76	50.85	15.71
Last Week *04-26-2022*	9.08	90.92	86.14	72.31	53.12	17.30
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Start of Calendar Year *01-04-2022*	4.16	95.84	89.75	75.37	50.84	17.27
Start of Water Year *09-28-2021*	0.00	100.00	100.00	96.47	72.10	26.59
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Intensity:

- None
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Author:

David Simeral

Western Regional Climate Center

droughtmonitor.unl.edu

Current % areal coverage:

None: 10%

D0: 6%

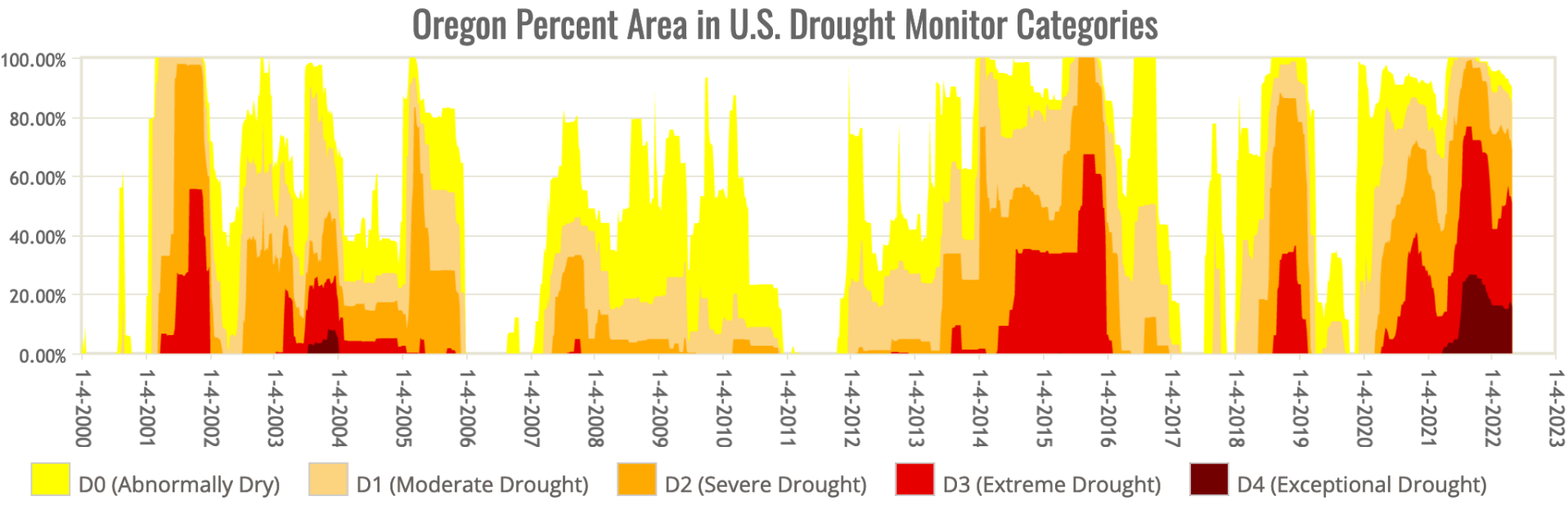
D1: 15%

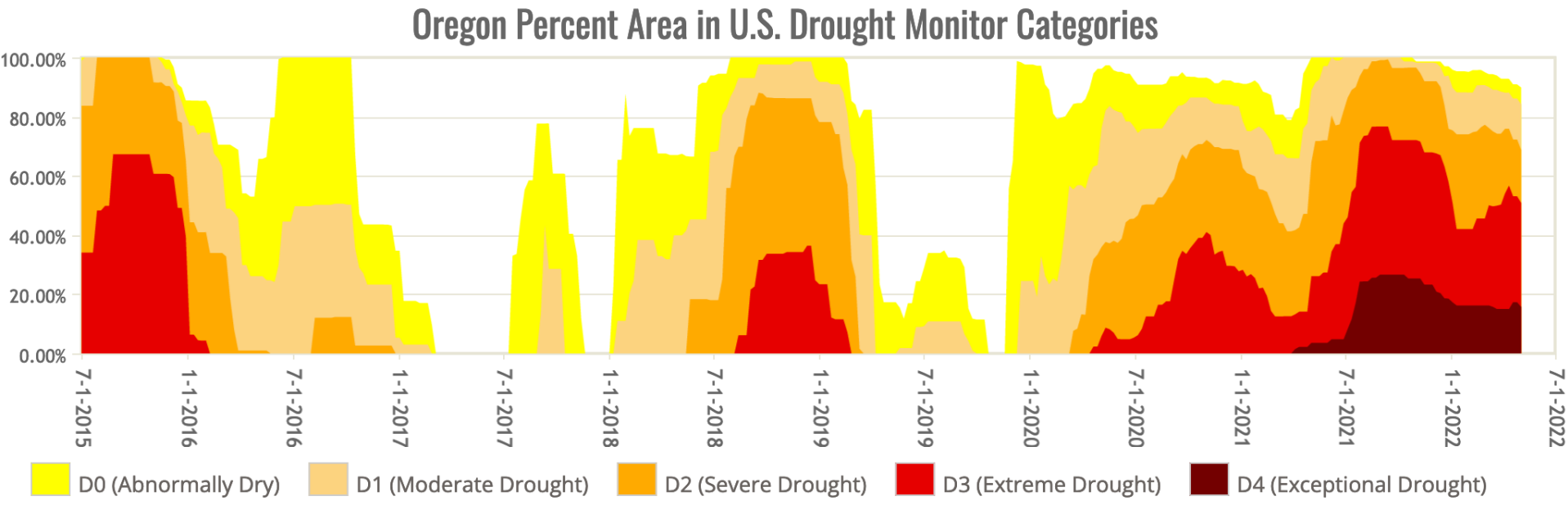
D2: 18%

D3: 35%

D4: 16%

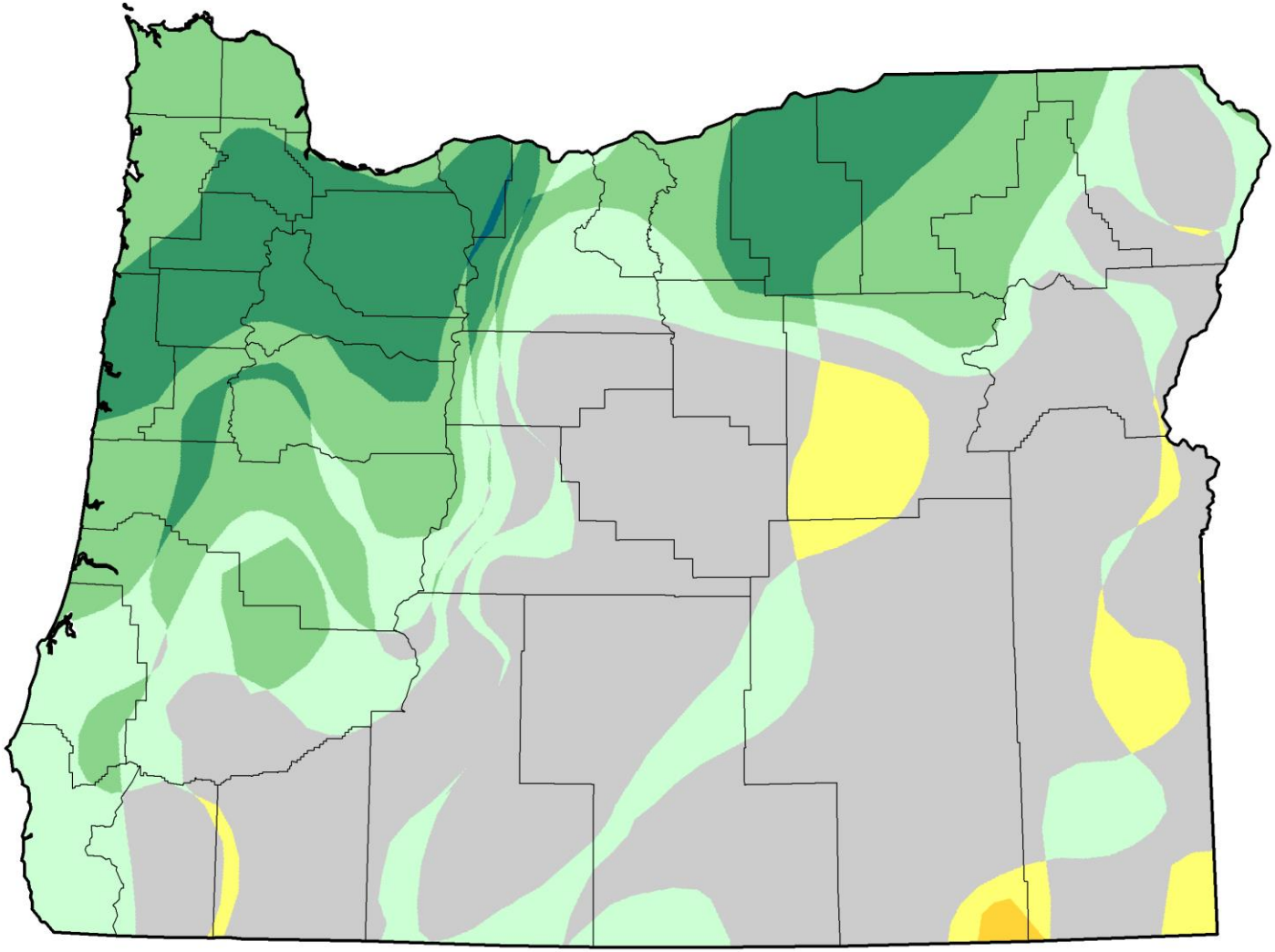
84% of Oregon still technically in drought


Oregon Percent Area in U.S. Drought Monitor Categories
100.00%
80.00%
60.00%
40.00%
20.00%
0.00%
1-4-2000
1-4-2001
1-4-2002
1-4-2003
1-4-2004
1-4-2005
1-4-2006
1-4-2007
1-4-2008
1-4-2009
1-4-2010
1-4-2011
1-4-2012
1-4-2013
1-4-2014
1-4-2015
1-4-2016
1-4-2017
1-4-2018
1-4-2019
1-4-2020
1-4-2021
1-4-2022
1-4-2023
D0 (Abnormally Dry)
D1 (Moderate Drought)
D2 (Severe Drought)
D3 (Extreme Drought)
D4 (Exceptional Drought)


Oregon Percent Area in U.S. Drought Monitor Categories
100.00%
80.00%
60.00%
40.00%
20.00%
0.00%
7-1-2015
1-1-2016
7-1-2016
1-1-2017
7-1-2017
1-1-2018
7-1-2018
1-1-2019
7-1-2019
1-1-2020
7-1-2020
1-1-2021
7-1-2021
1-1-2022
7-1-2022
D0 (Abnormally Dry)
D1 (Moderate Drought)
D2 (Severe Drought)
D3 (Extreme Drought)
D4 (Exceptional Drought)

U.S. Drought Monitor Class Change - Oregon

Start of Water Year



May 3, 2022
compared to
September 28, 2021

droughtmonitor.unl.edu

NATIONAL DROUGHT MITIGATION CENTER
NDMC
UNIVERSITY OF NEBRASKA

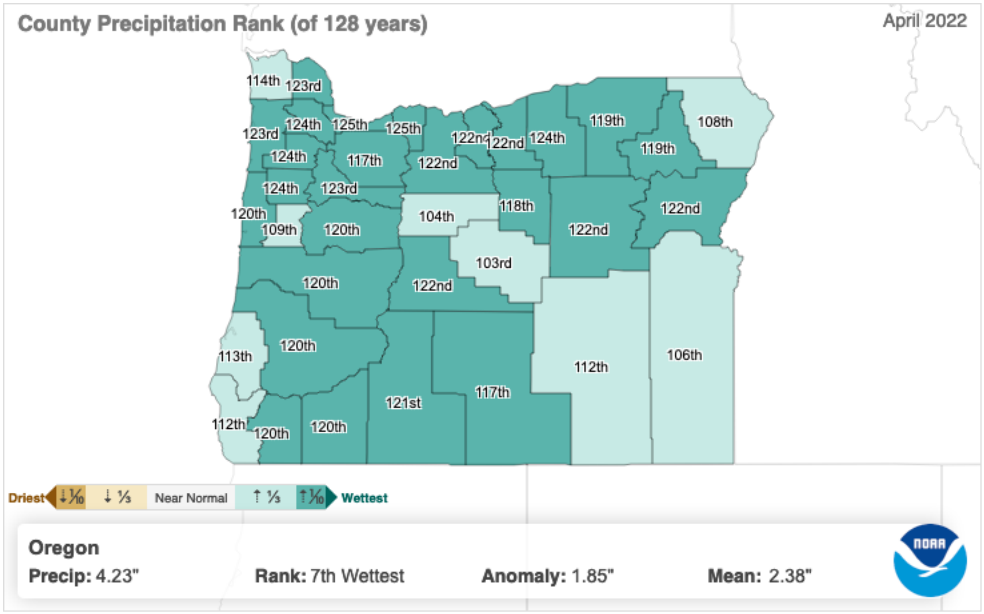
- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

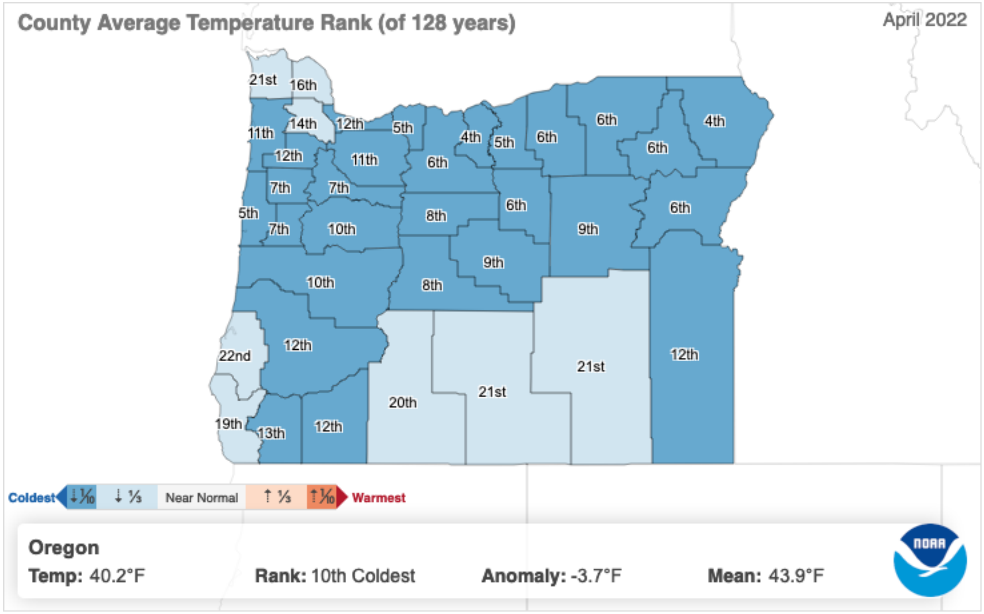
Oregon as a state experienced a wet and cool April

Rankings relative to the 128-year historical data record:

7th wettest April
10th coolest April

All counties experienced were on the cool and wet end of their respective period of records

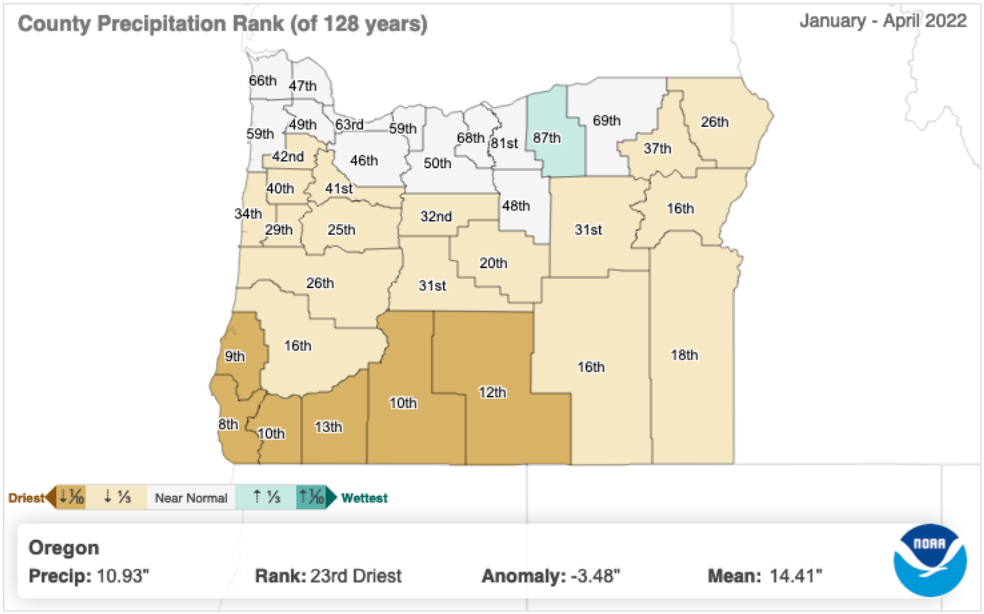


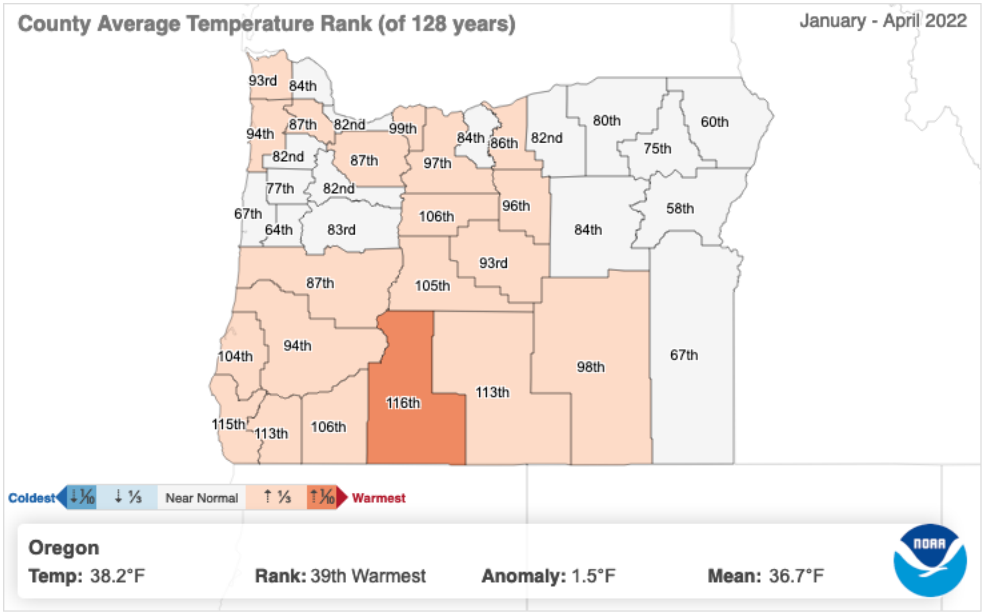


For the Calendar Year 2022 to date, Oregon as a state was much drier than normal and slightly warmer

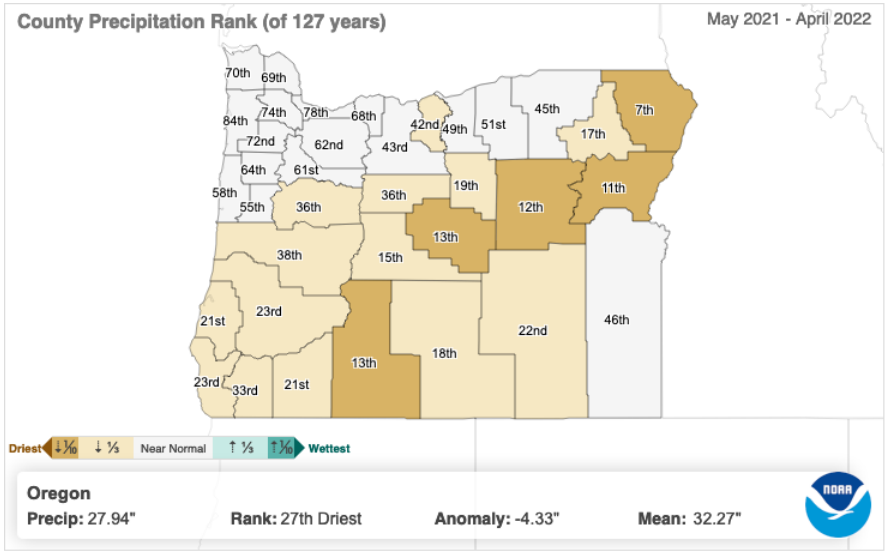
23rd driest YTD
39th warmest YTD

Exceptions were mainly in northern Oregon, which was near median in terms of precipitation

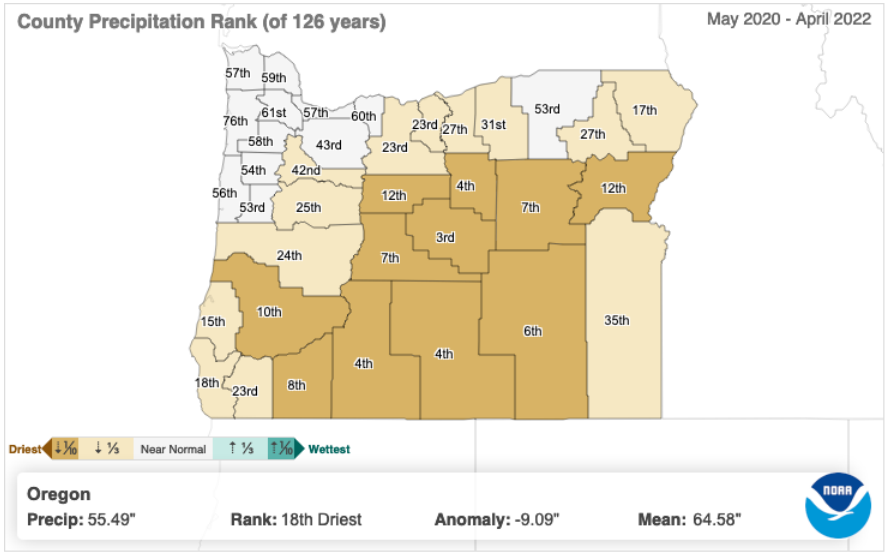


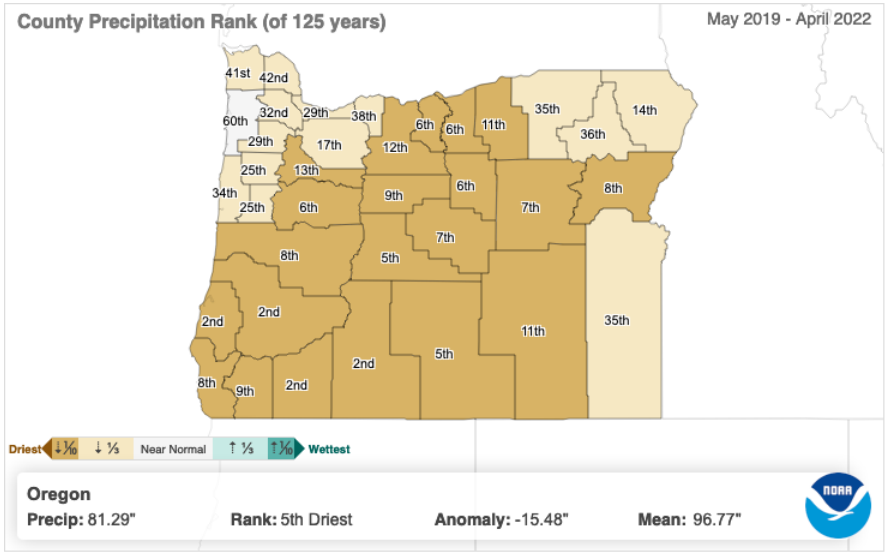


Long-term precipitation rankings



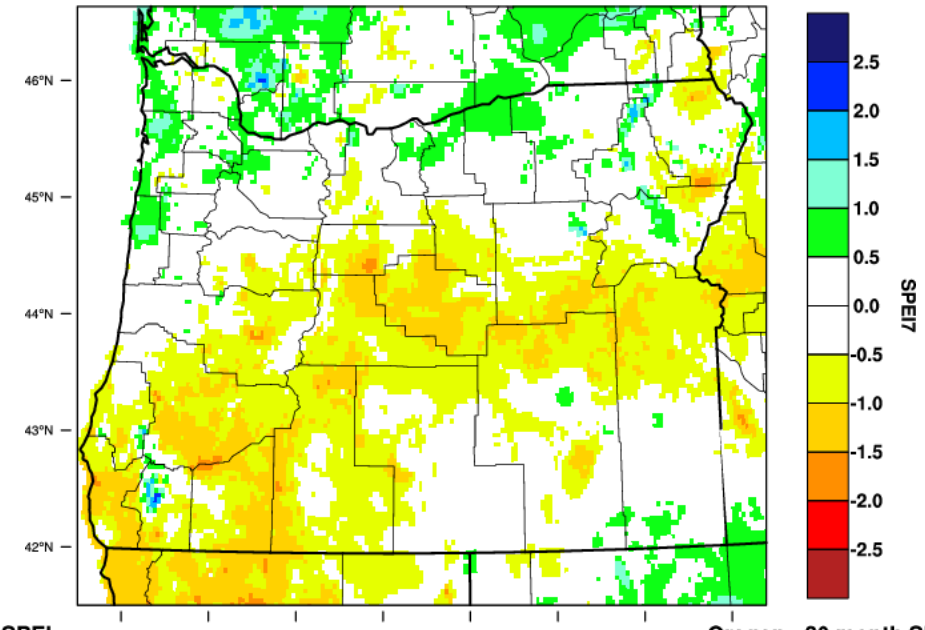
Statewide rankings:
12-month: 27th driest
24-month: 18th driest
36-month: 5th driest





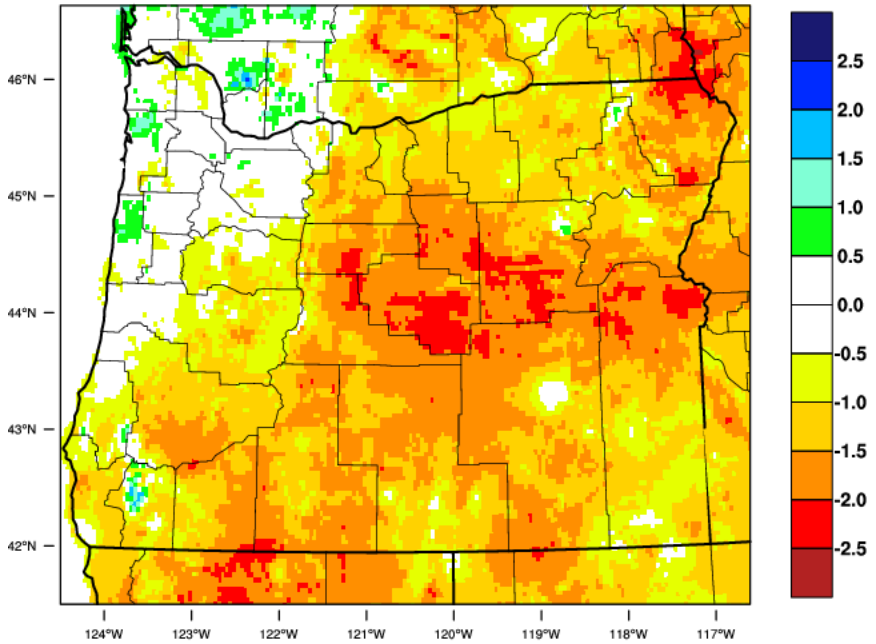
Oregon - 7 month SPEI

April 2022



Oregon - 12 month SPEI

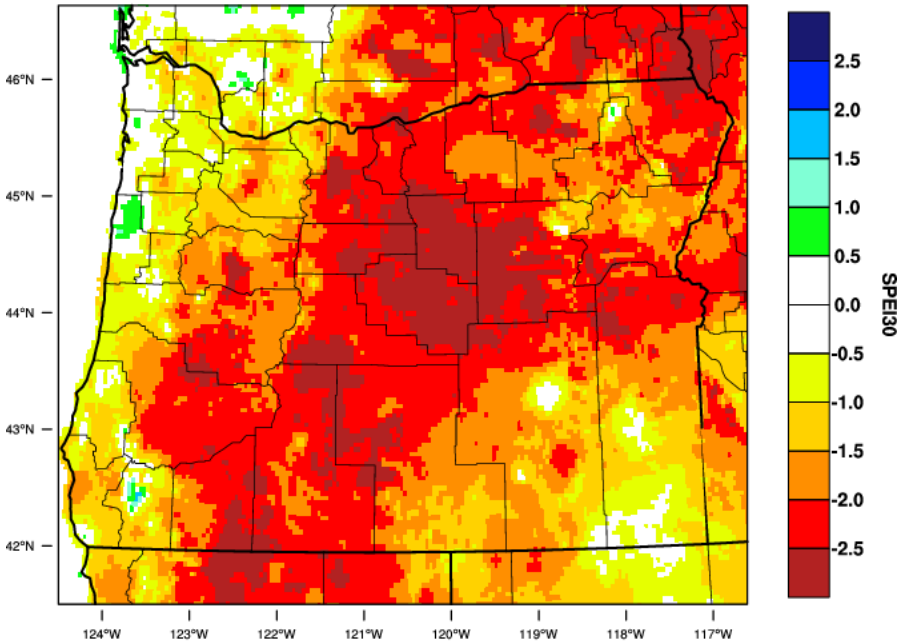
April 2022



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 MAY 2022

Oregon - 30 month SPEI

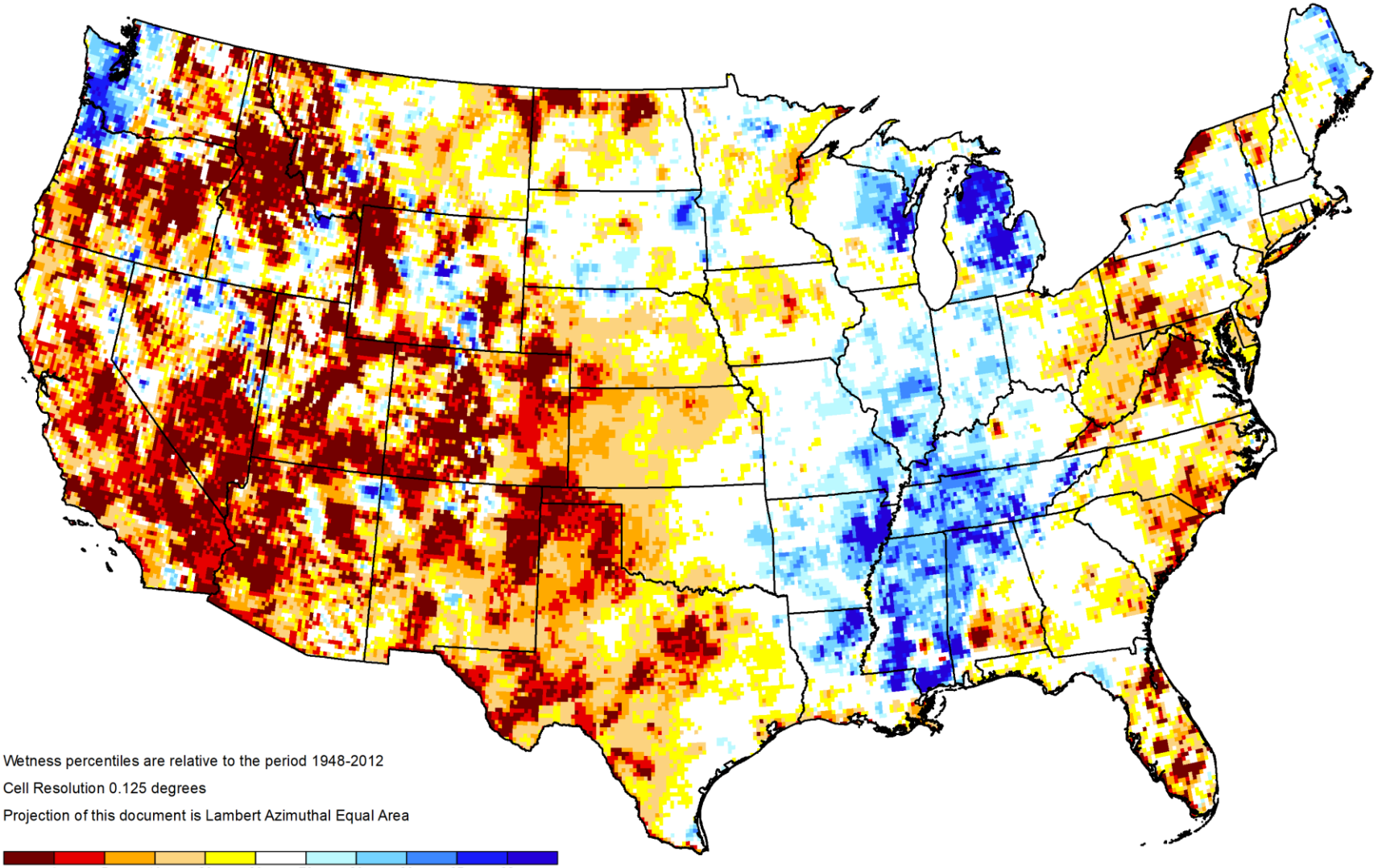
April 2022



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 11 MAY 2022

GRACE-Based Shallow Groundwater Drought Indicator

May 02, 2022



Wetness percentiles are relative to the period 1948-2012

Cell Resolution 0.125 degrees

Projection of this document is Lambert Azimuthal Equal Area

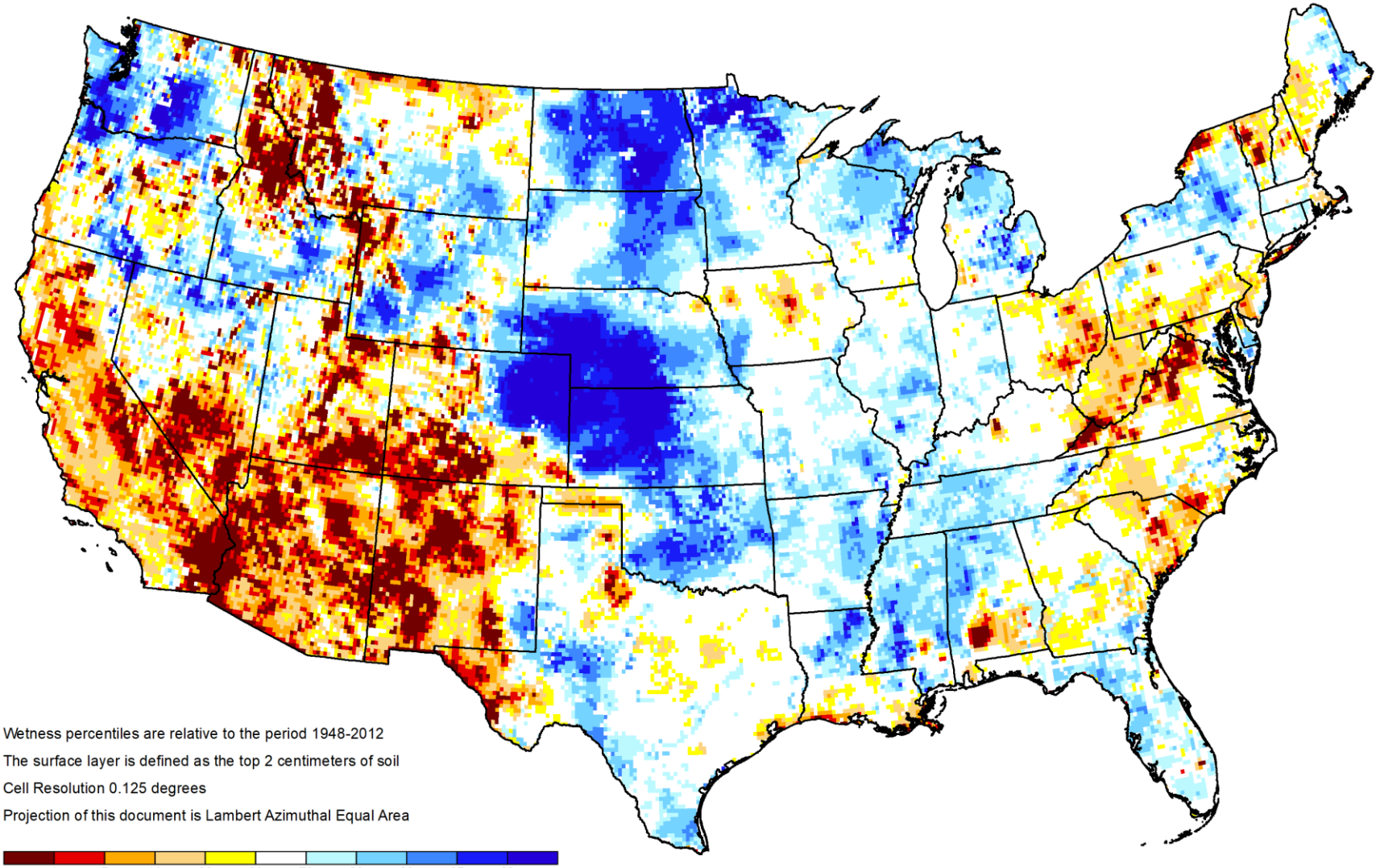
2 5 10 20 30 70 80 90 95 98

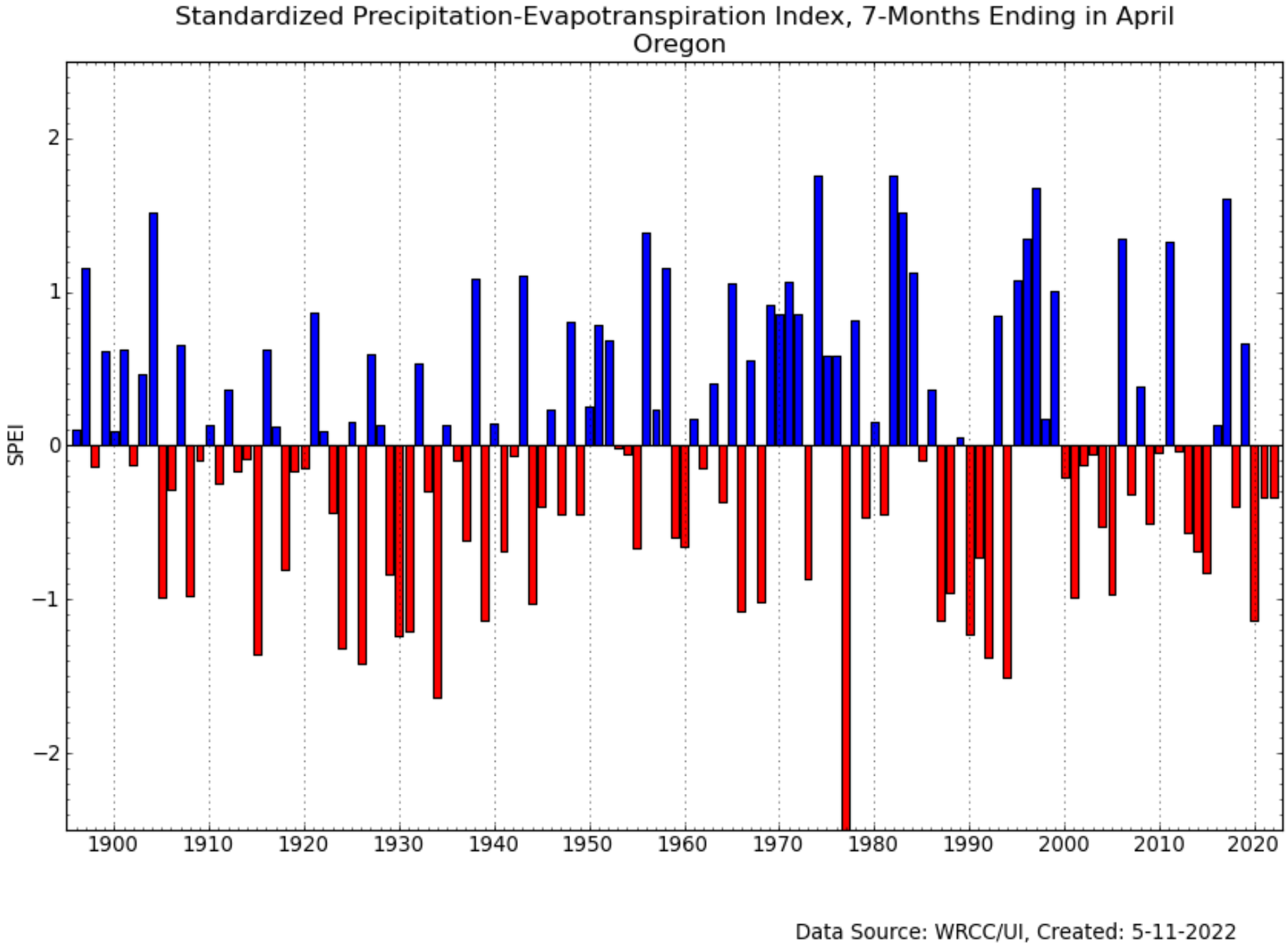
Wetness Percentile

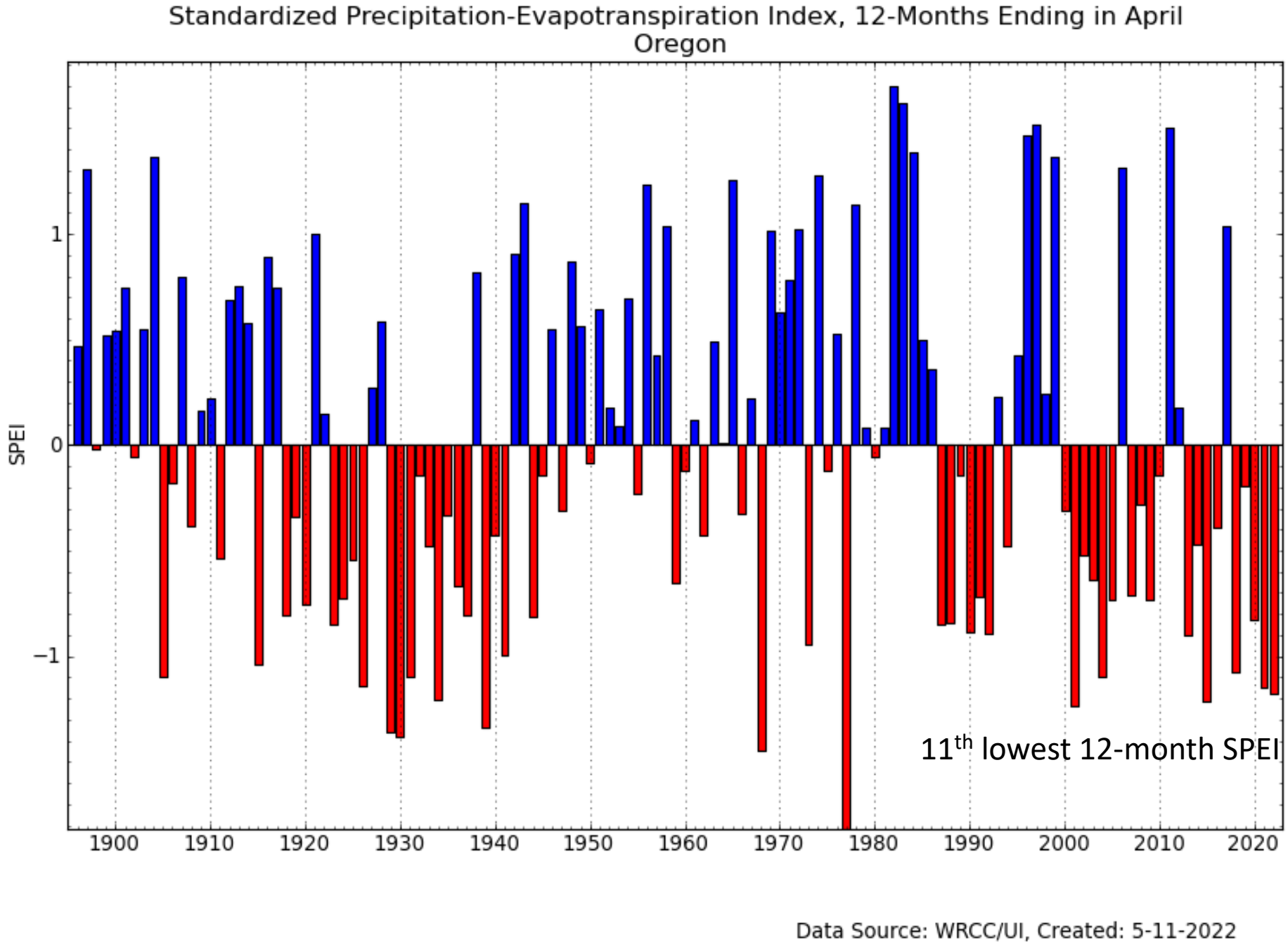
https://nasagrace.unl.edu

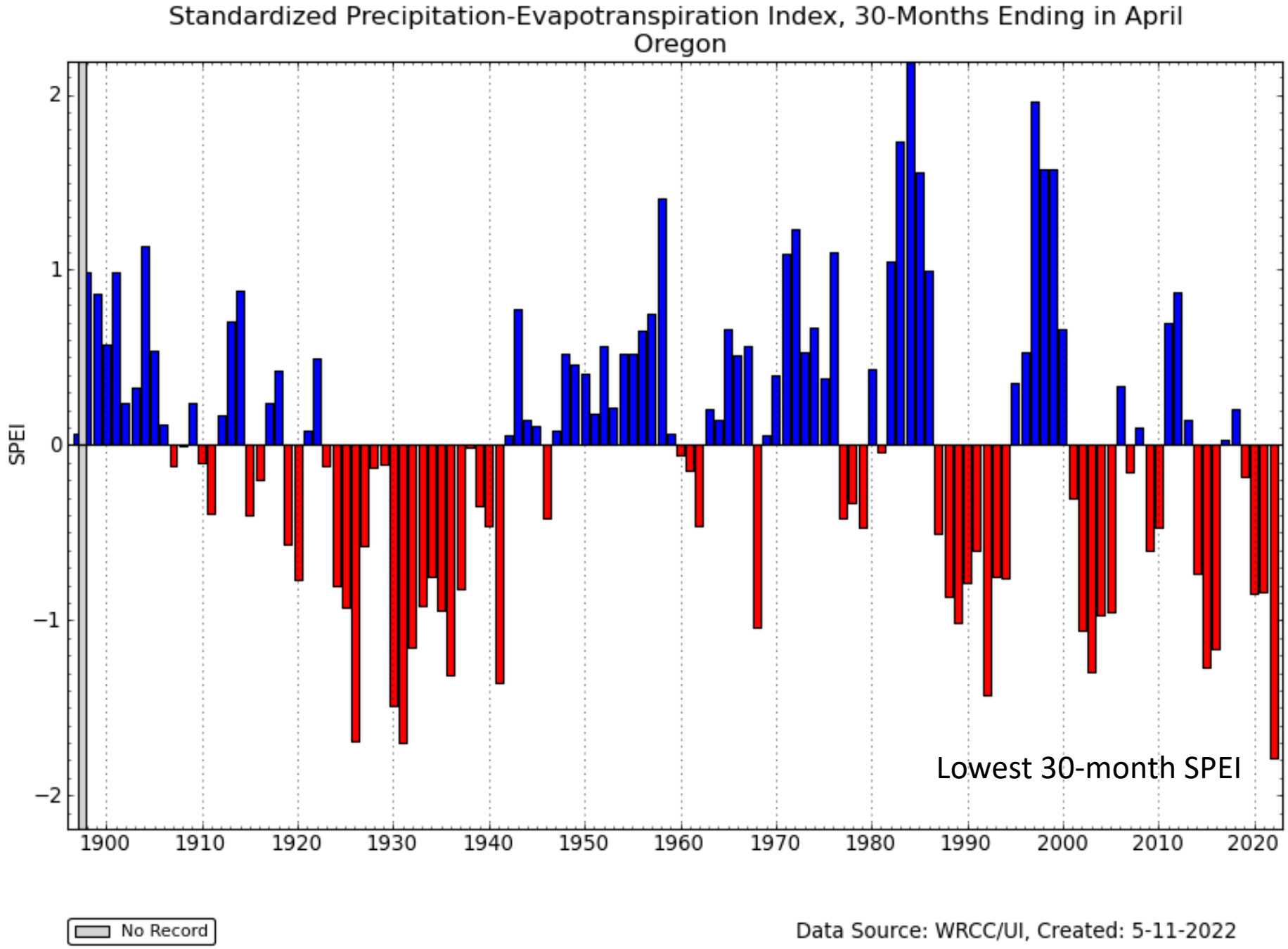
GRACE-Based Surface Soil Moisture Drought Indicator

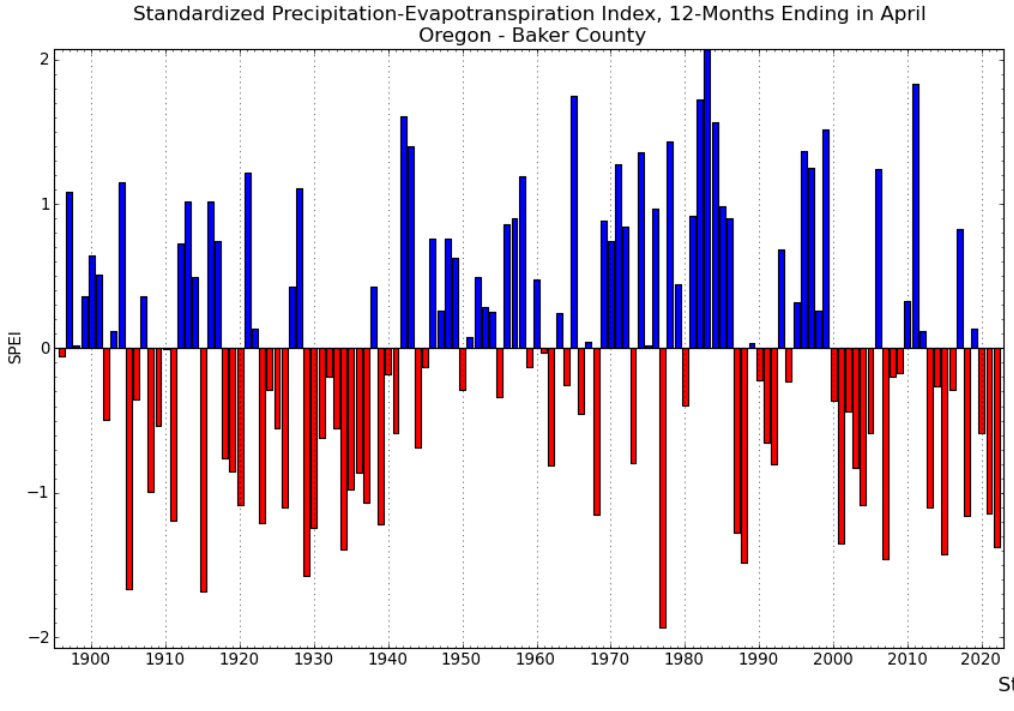
May 02, 2022

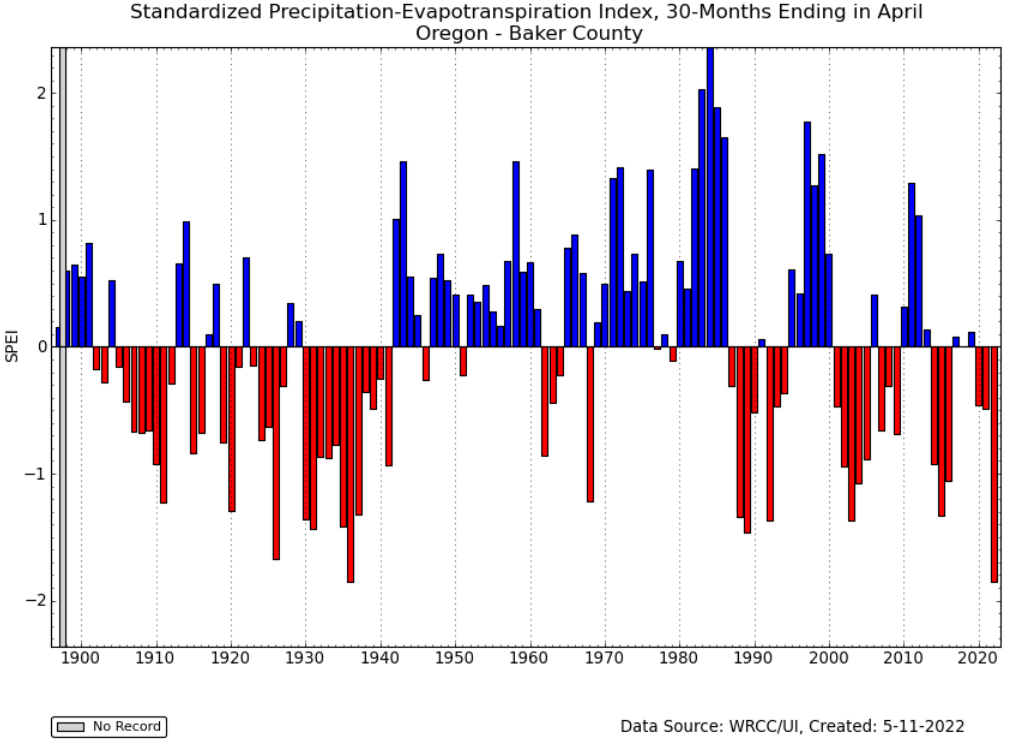



Standardized Precipitation-Evapotranspiration Index, 7-Months Ending in April
Oregon
SPEI
2
1
0
−1
−2
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
2010
2020
Data Source: WRCC/UI, Created: 5-11-2022


Standardized Precipitation-Evapotranspiration Index, 12-Months Ending in April
Oregon
SPEI
1
0
−1
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
2010
2020
11th lowest 12-month SPEI
Data Source: WRCC/UI, Created: 5-11-2022

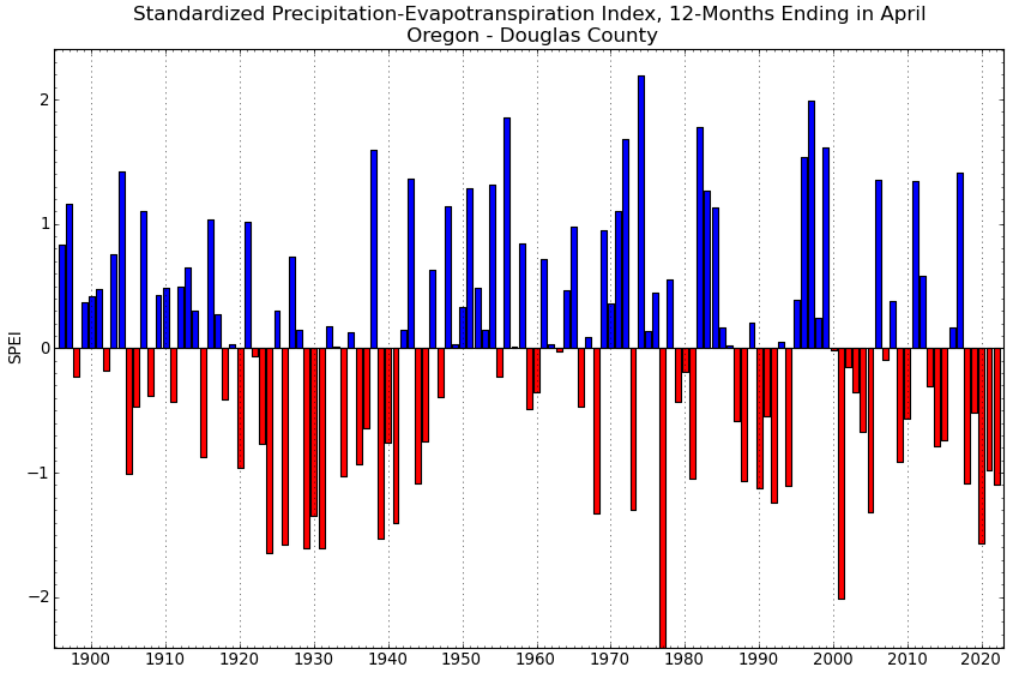

Standardized Precipitation-Evapotranspiration Index, 30-Months Ending in April
Oregon
SPEI
2
1
0
−1
−2
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
2010
2020
Lowest 30-month SPEI
No Record
Data Source: WRCC/UI, Created: 5-11-2022

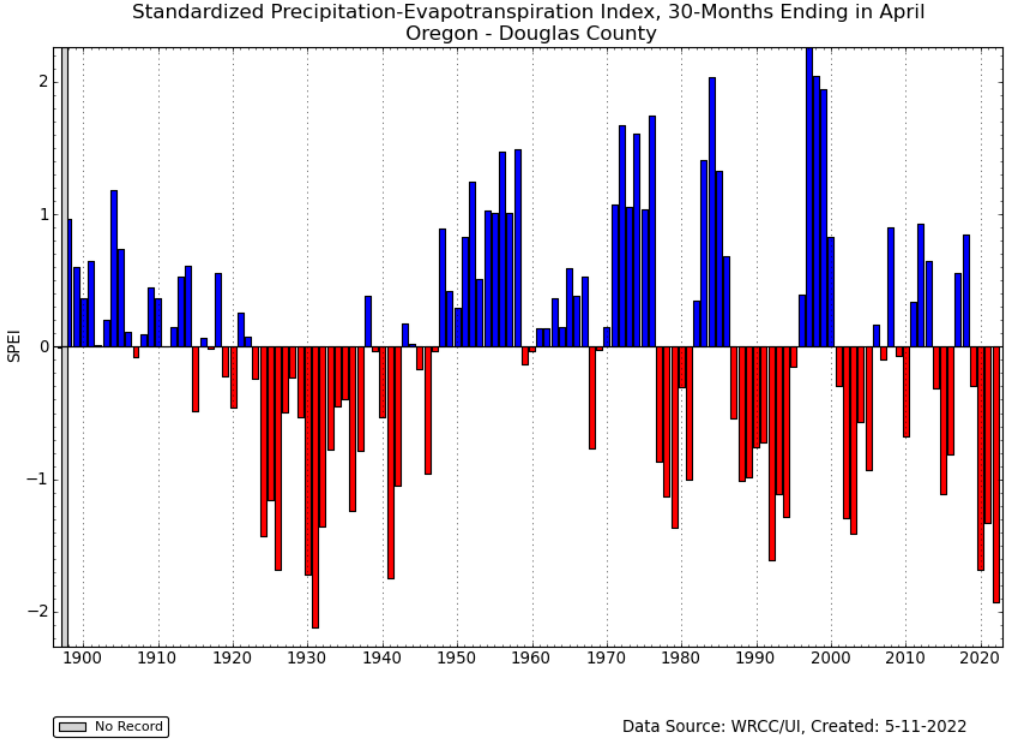




Baker County SPEI rankings

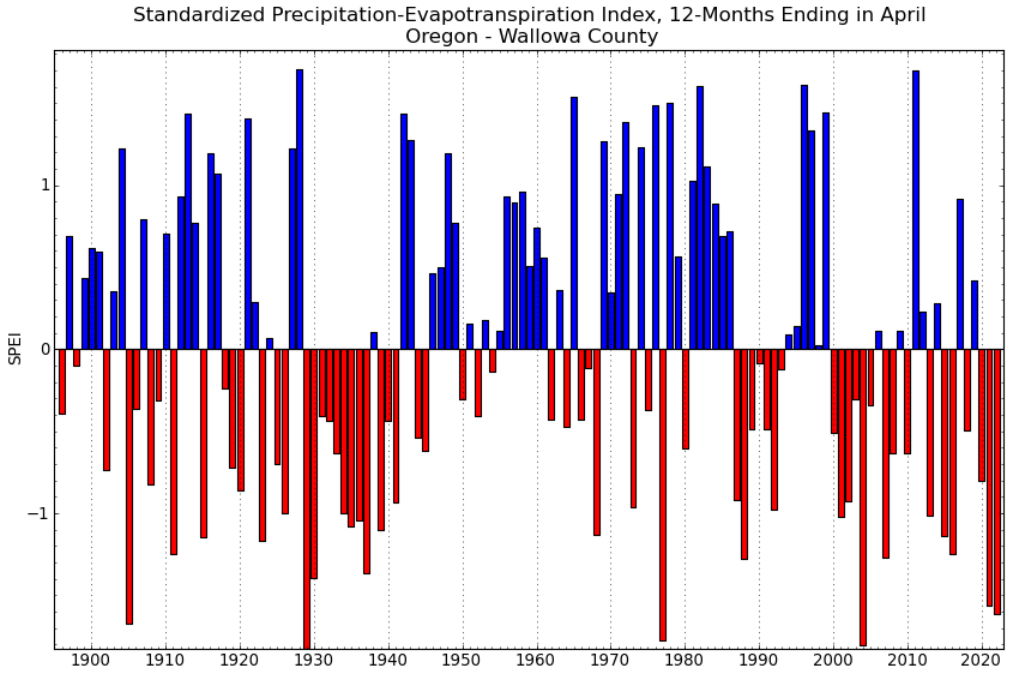
12-month: 9th lowest
30-month: Tied for Lowest with 30-month period ending in April 1936





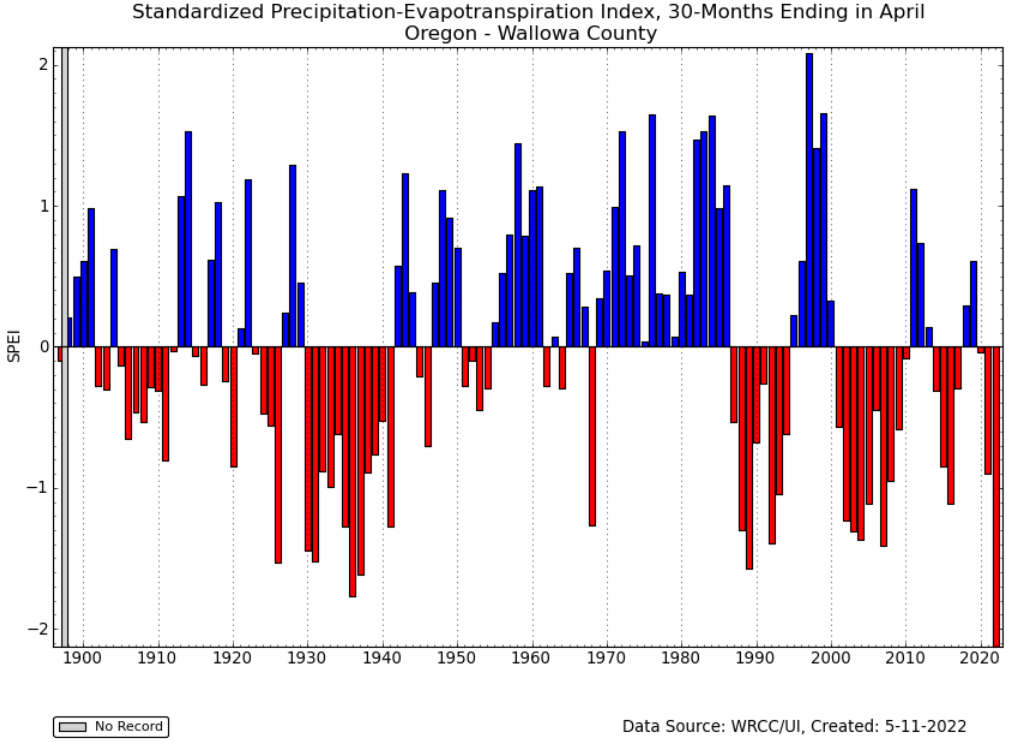
Douglas County SPEI rankings

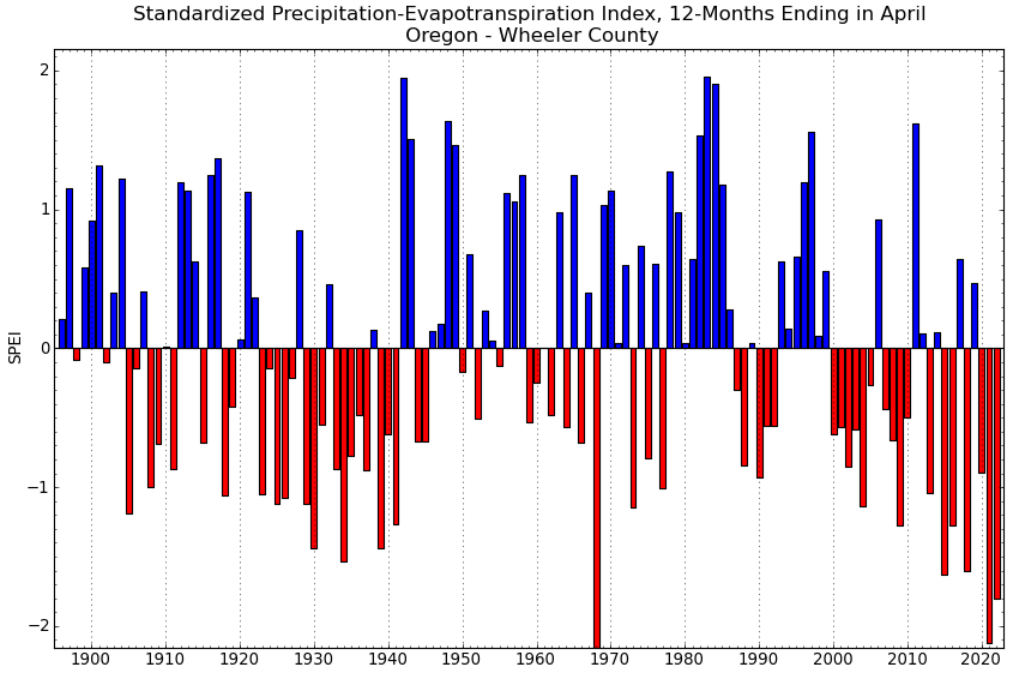
12-month: 18th lowest
30-month: 2nd lowest



Wallowa County SPEI rankings

12-month: 5th lowest
30-month: Lowest

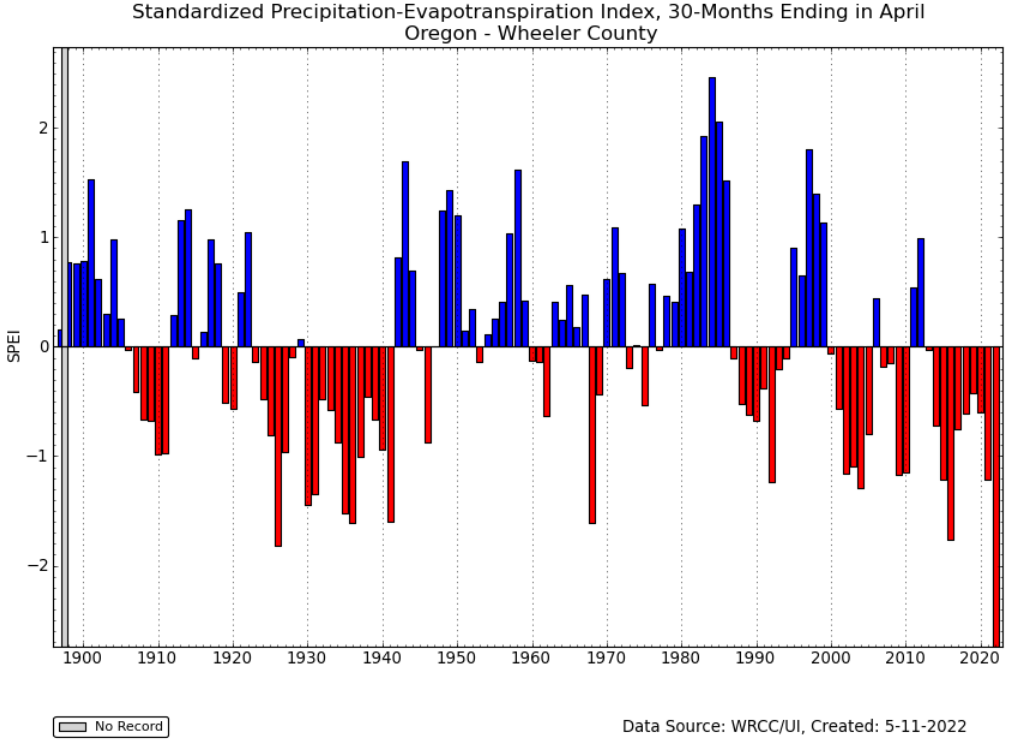




Data Source: WRCC/UI, Cre

Wheeler County SPEI rankings

12-month: 3rd lowest
30-month: Lowest

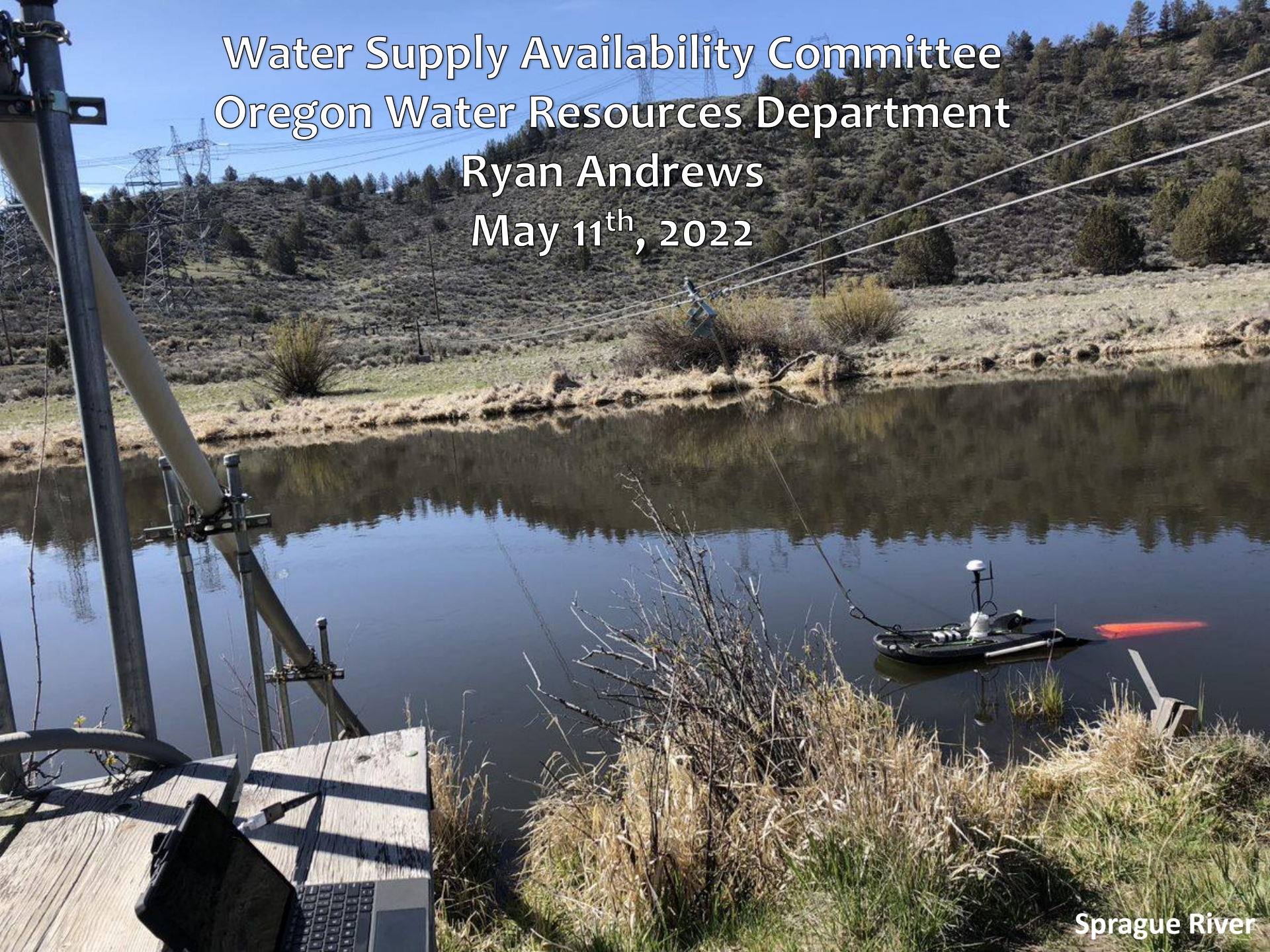


Data Source: WRCC/UI, Created: 5-11-2022

Water Supply Availability Committee
Oregon Water Resources Department

Ryan Andrews

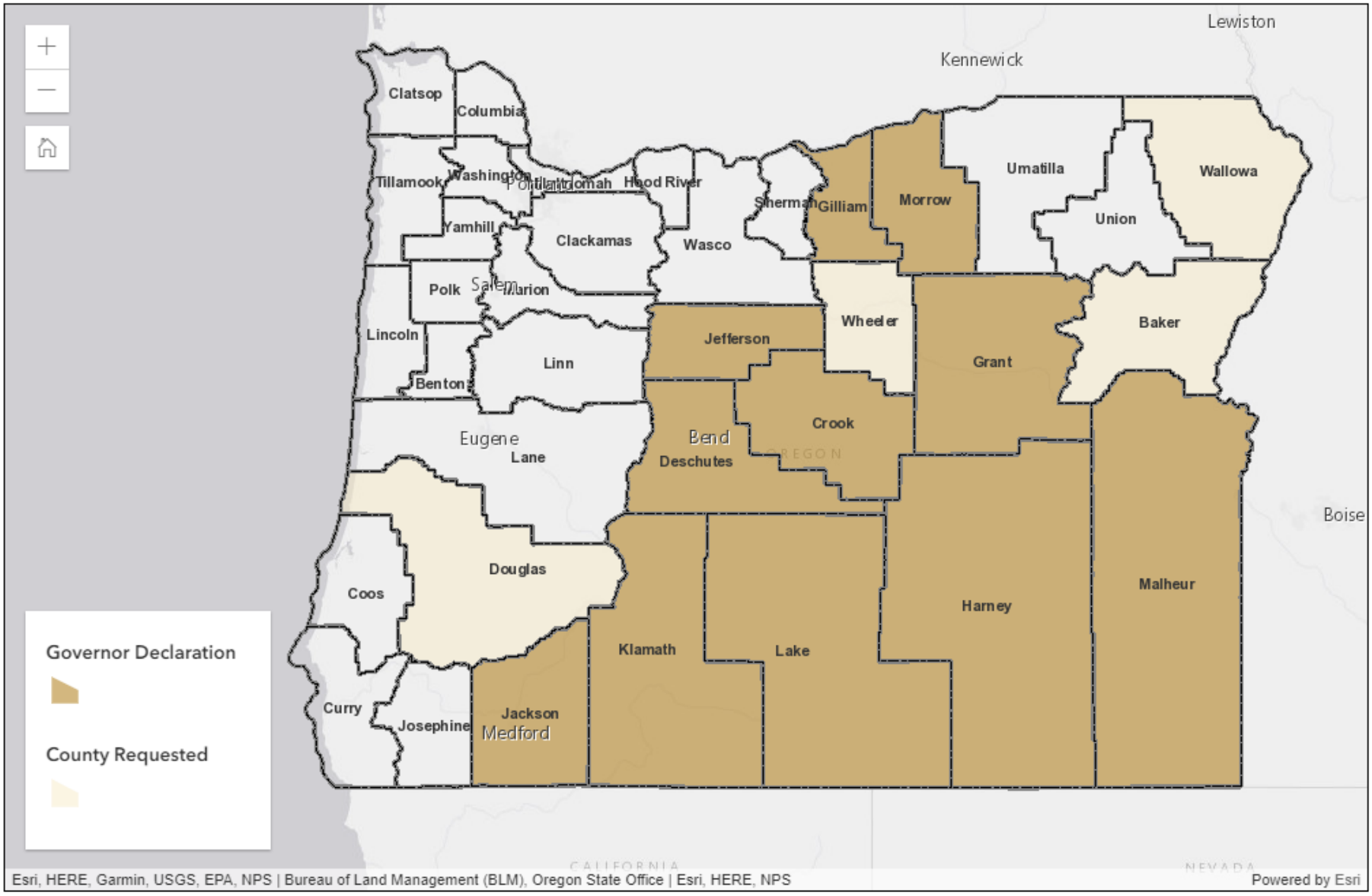
May 11th, 2022

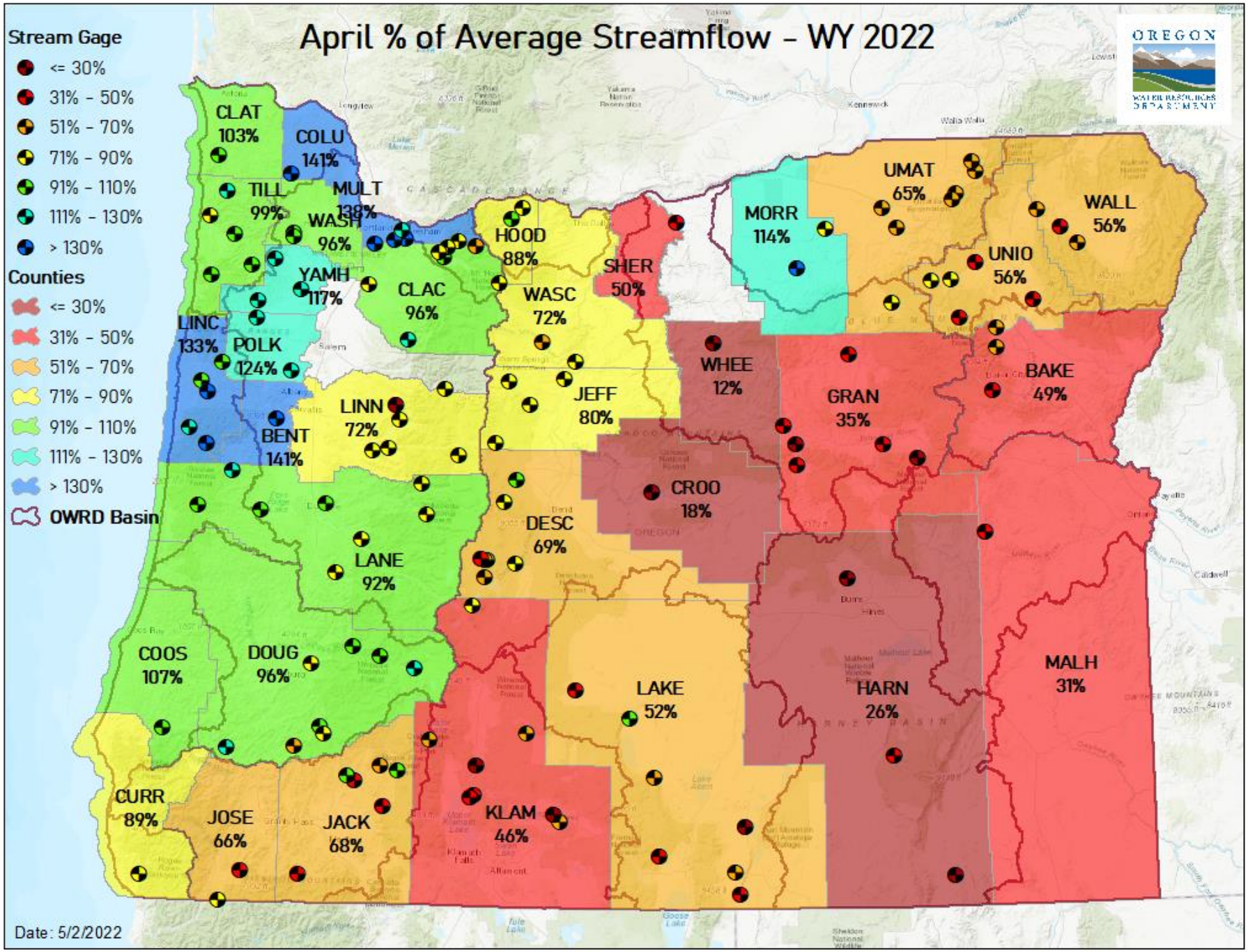


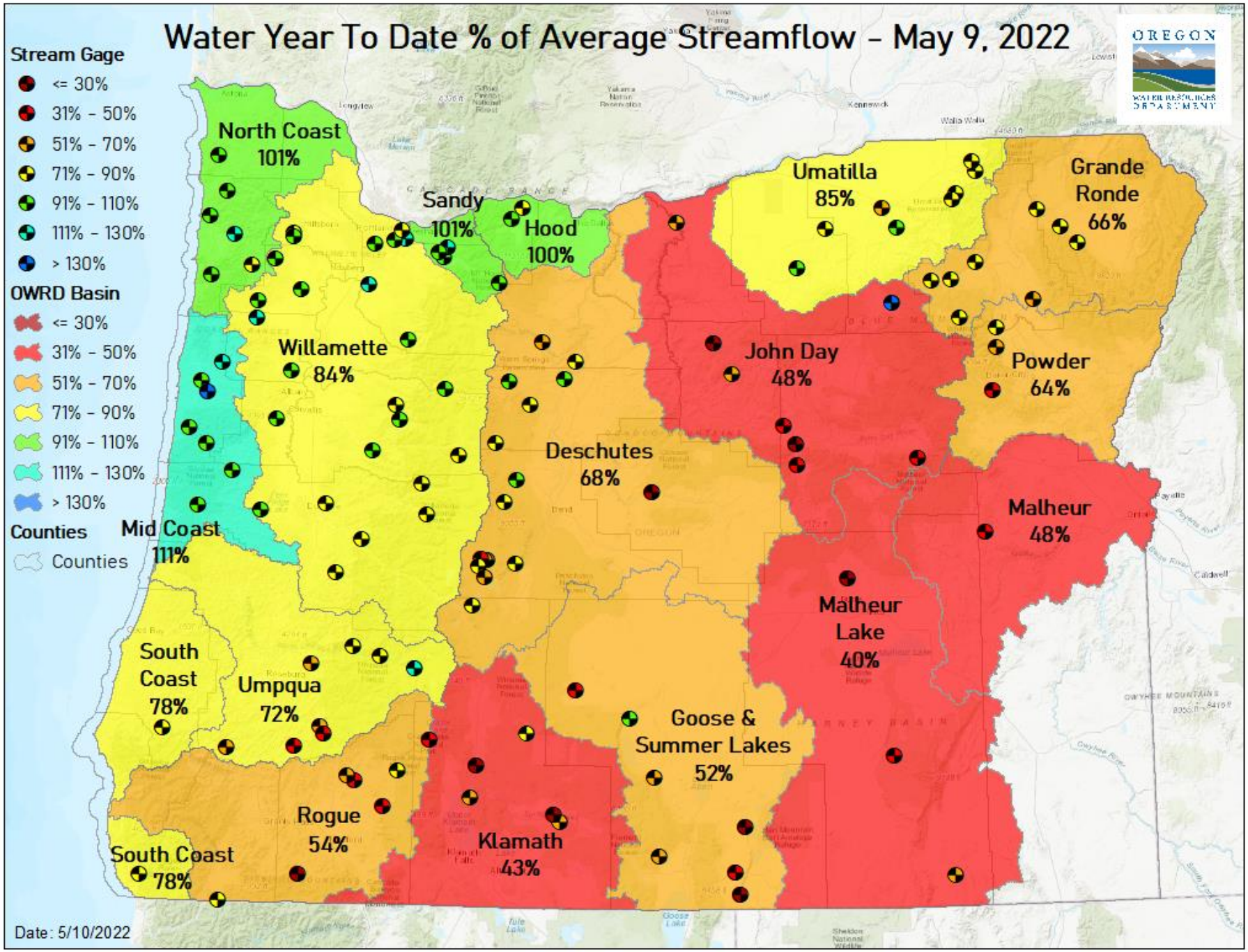
Sprague River

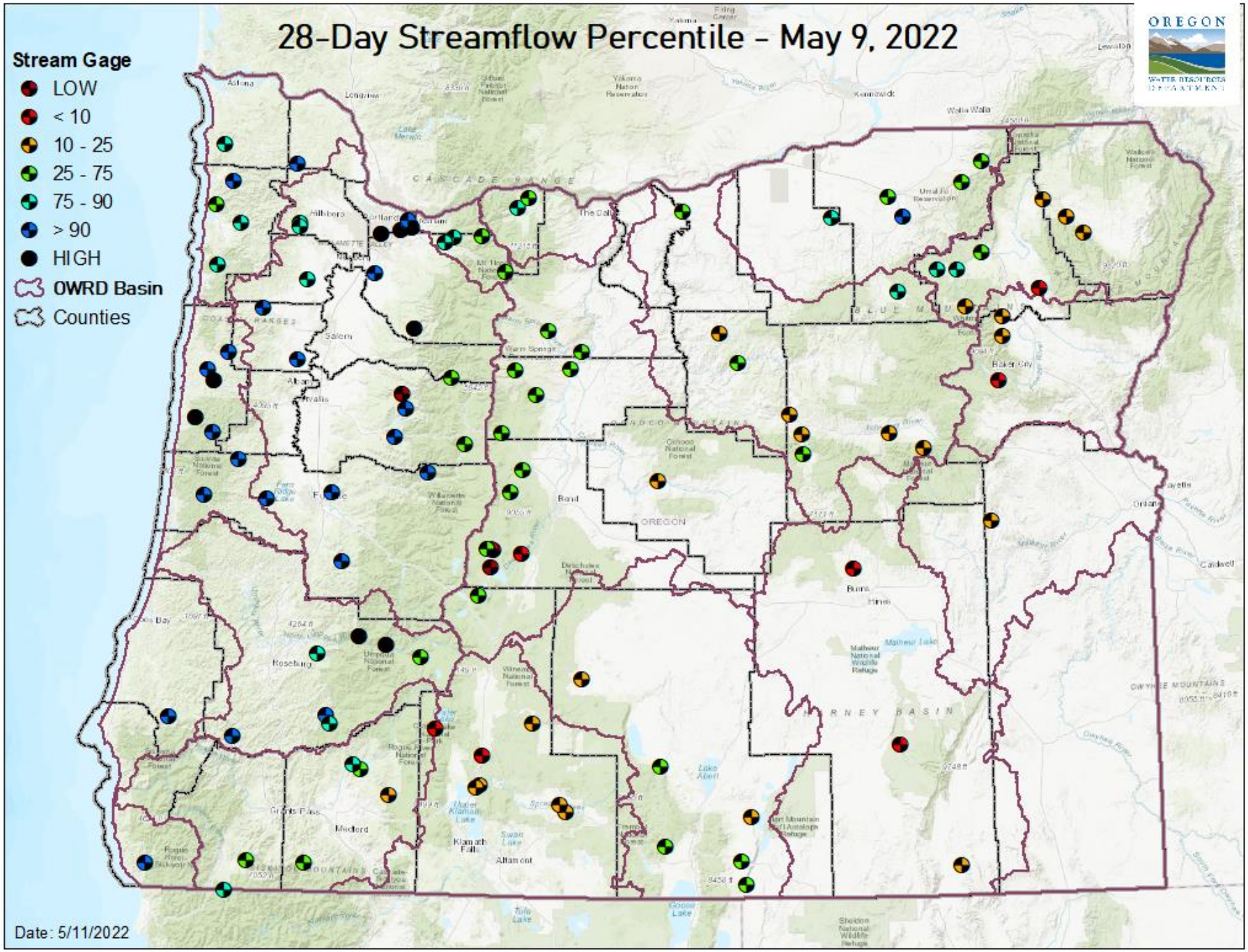
Drought Declaration Status Map

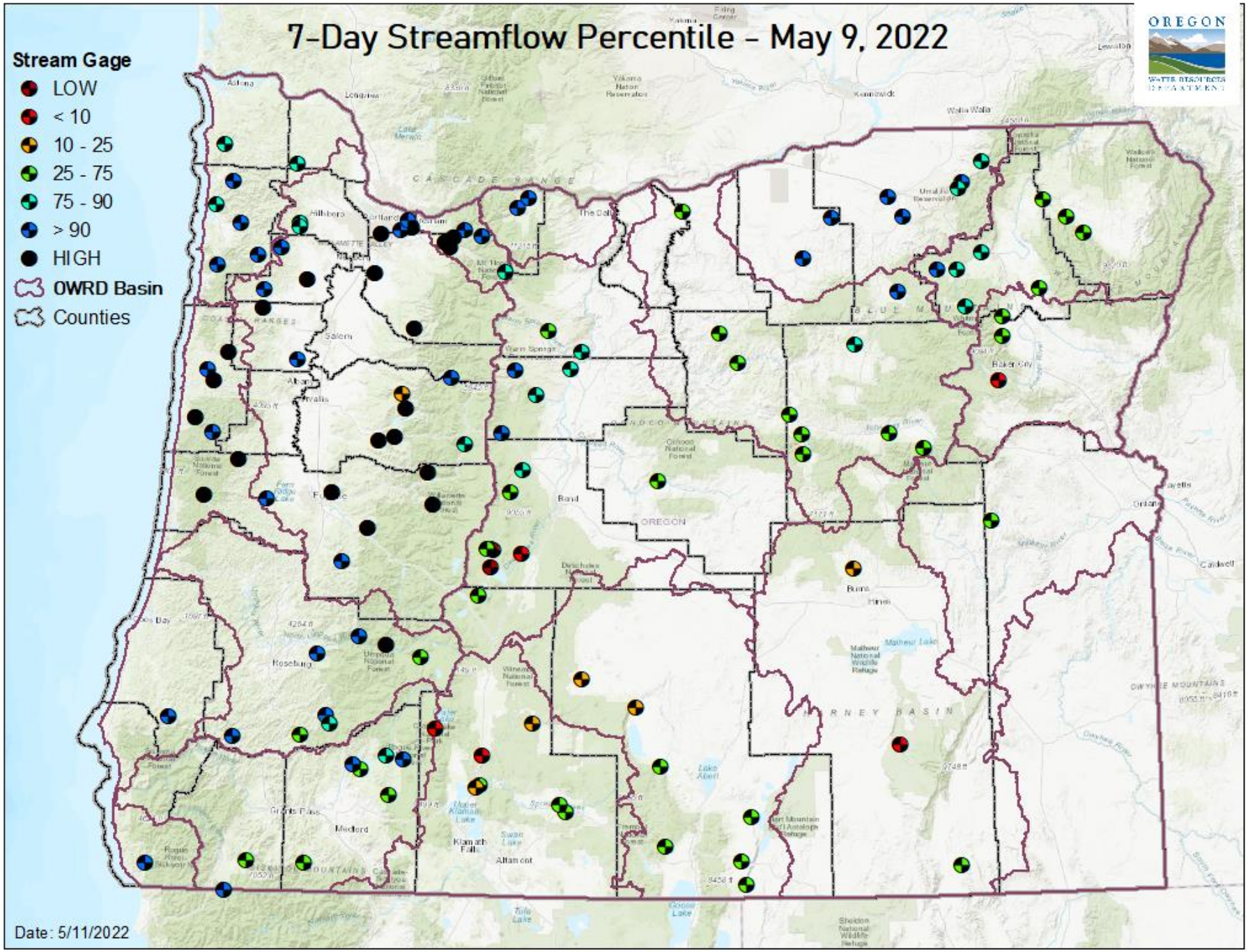
Select Year: 2022 Search Clear

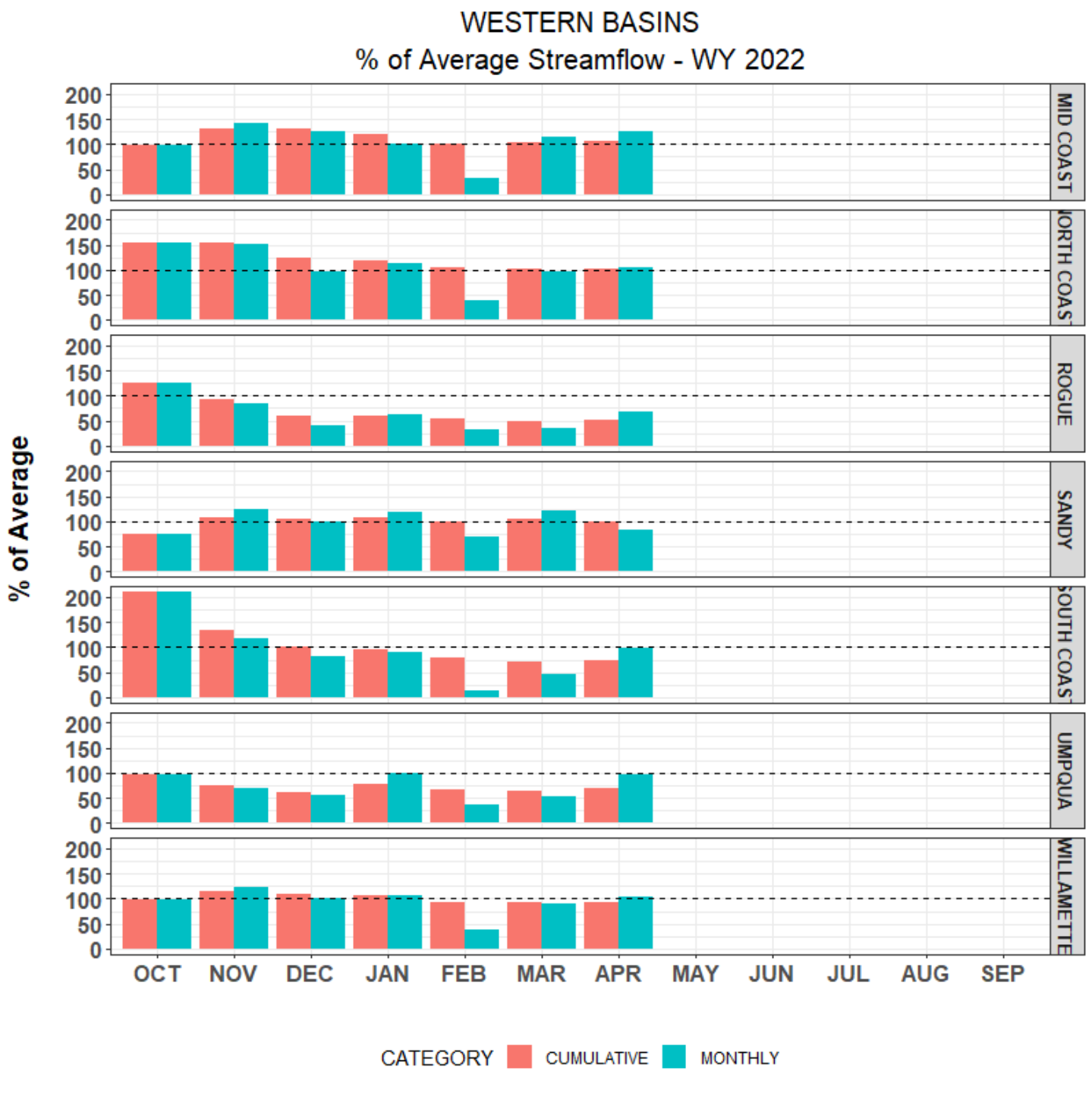


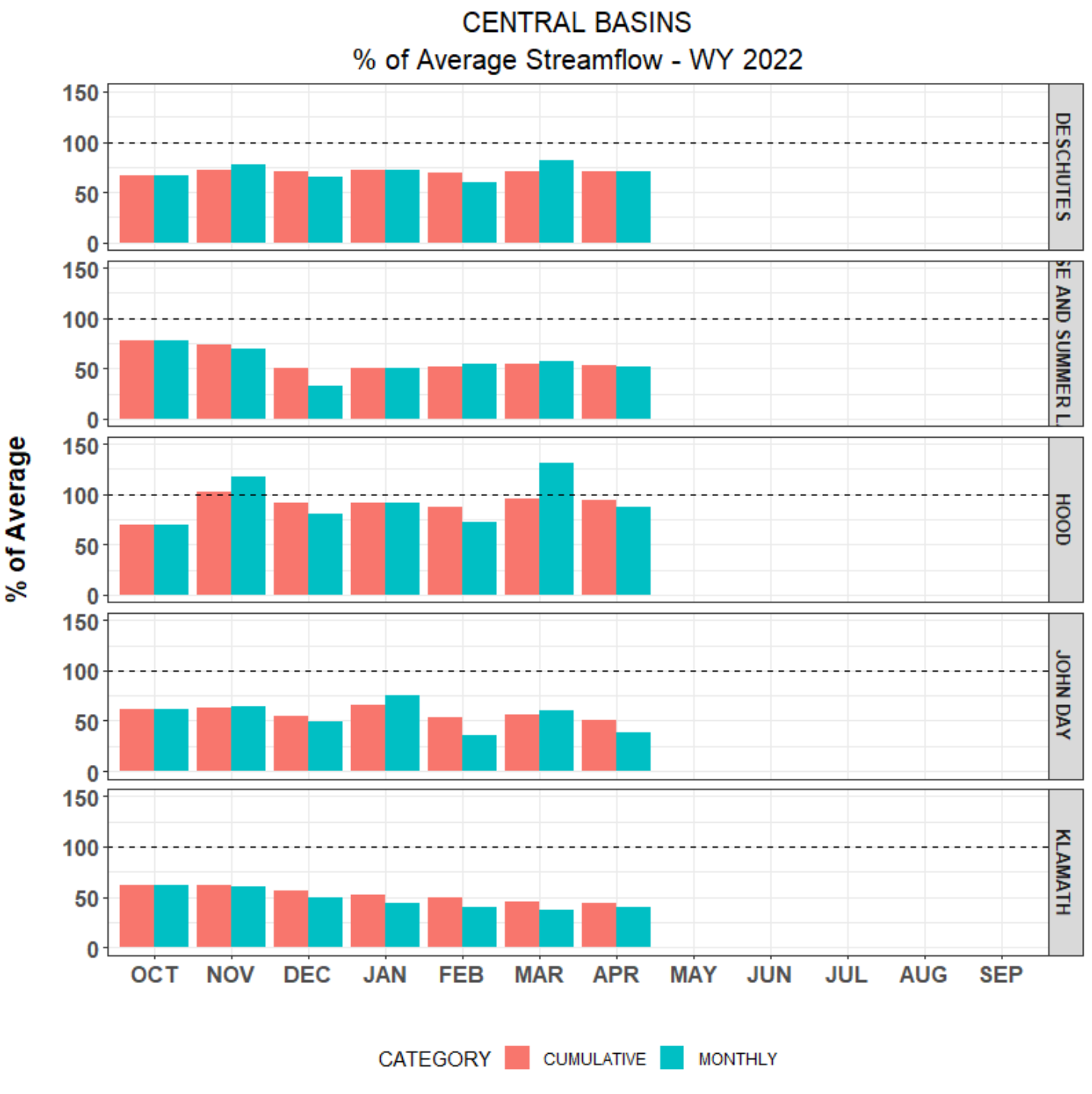

April % of Average Streamflow - WY 2022
Stream Gage
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
Counties
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
OWRD Basin
OREGON
WATER RESOURCES DEPARTMENT
CLAT 103%
COLU 141%
TILL 99%
MULT 138%
WASH 96%
YAMH 117%
CLAC 96%
LINC 133%
POLK 124%
BENT 141%
LINN 72%
HOOD 88%
WASC 72%
SHER 50%
JEFF 80%
MORR 114%
UMAT 65%
WALL 56%
UNIO 56%
WHEE 12%
GRAN 35%
BAKE 49%
CROO 18%
DESC 69%
LANE 92%
COOS 107%
DOUG 96%
LAKE 52%
HARN 26%
MALH 31%
CURR 89%
JOSE 66%
JACK 68%
KLAM 46%
Date: 5/2/2022


Water Year To Date % of Average Streamflow - May 9, 2022
Stream Gage
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
OWRD Basin
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
Counties
Counties
North Coast 101%
Sandy 101%
Hood 100%
Umatilla 85%
Grande Ronde 66%
Willamette 84%
John Day 48%
Powder 64%
Deschutes 68%
Malheur 48%
Mid Coast 111%
Malheur Lake 40%
South Coast 78%
Umpqua 72%
Goose & Summer Lakes 52%
Rogue 54%
Klamath 43%
South Coast 78%
Date: 5/10/2022

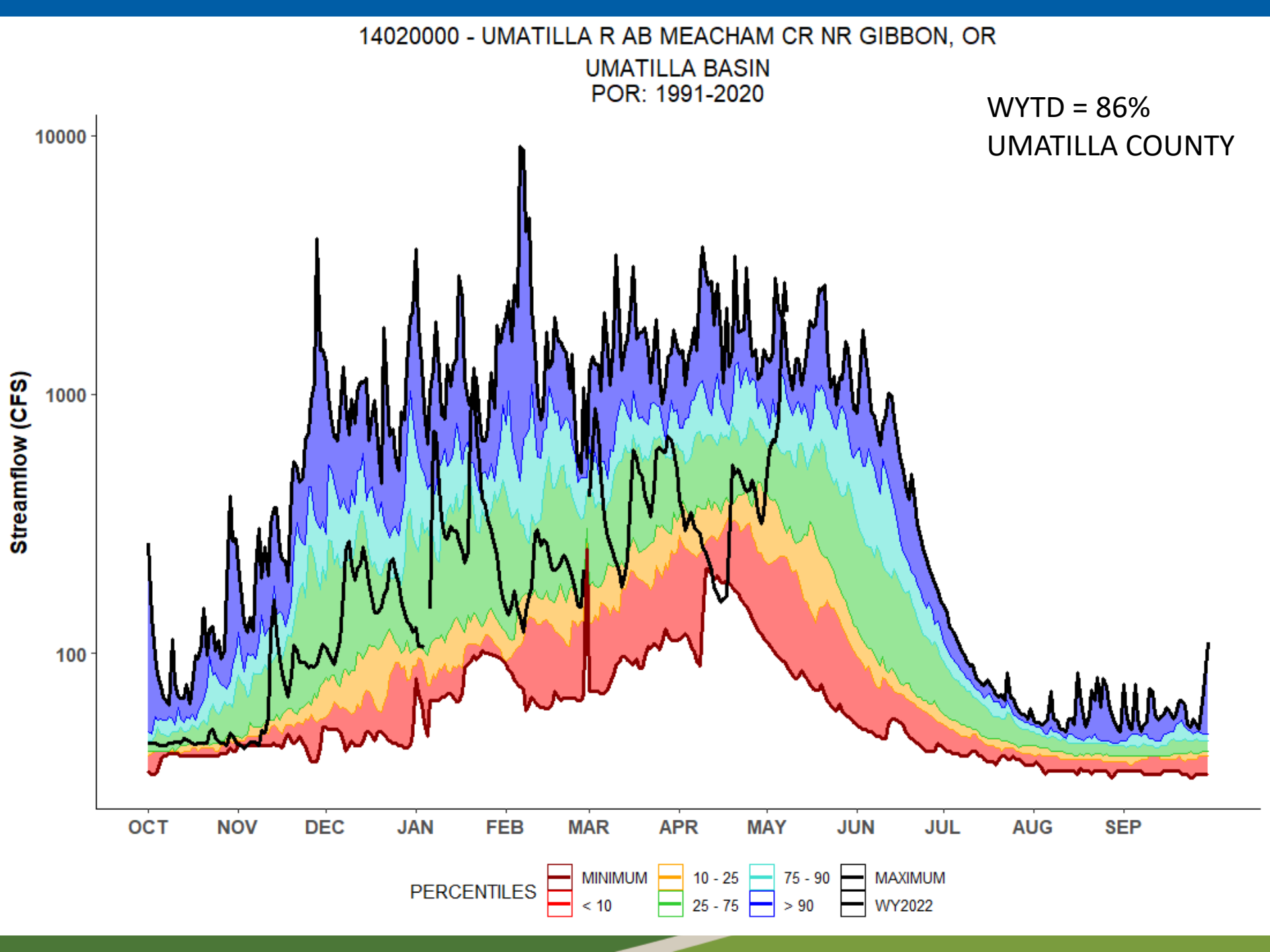

28-Day Streamflow Percentile - May 9, 2022
Stream Gage
LOW
< 10
10 - 25
25 - 75
75 - 90
> 90
HIGH
OWRD Basin
Counties
OREGON
WATER RESOURCES DEPARTMENT
Date: 5/11/2022

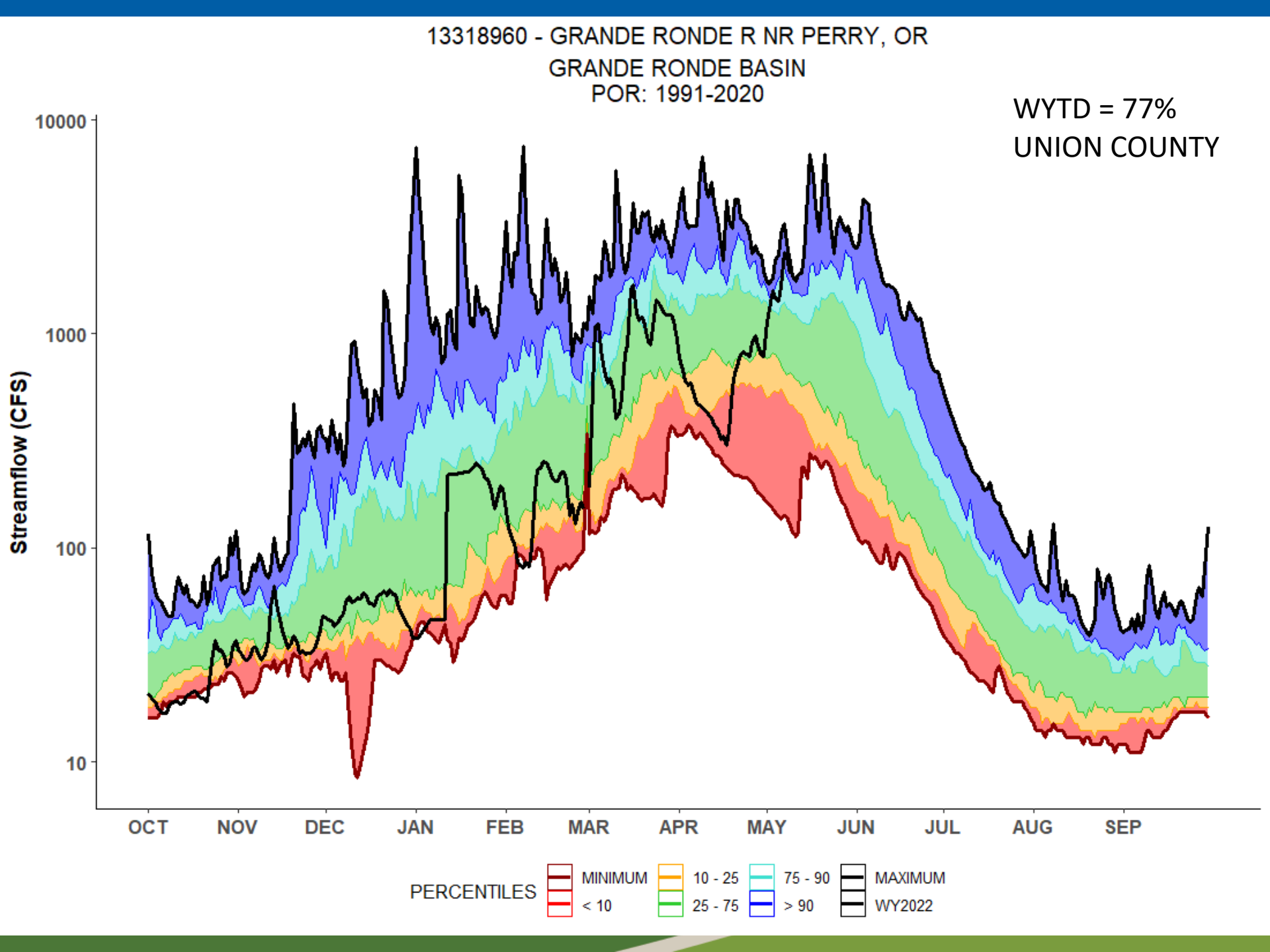

7-Day Streamflow Percentile - May 9, 2022
Stream Gage
LOW
< 10
10 - 25
25 - 75
75 - 90
> 90
HIGH
OWRD Basin
Counties
OREGON
WATER RESOURCES DEPARTMENT
Date: 5/11/2022

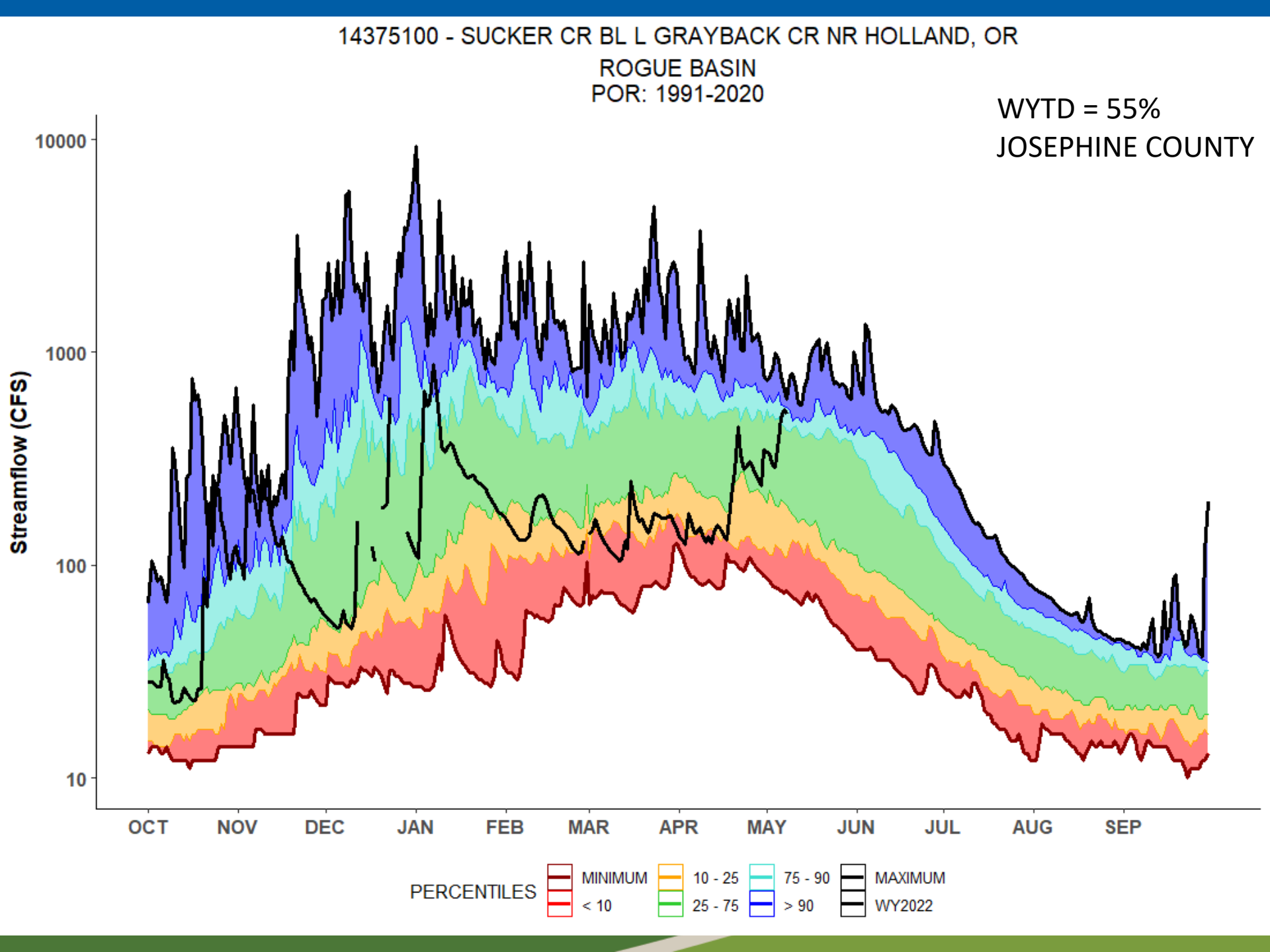

WESTERN BASINS
% of Average Streamflow - WY 2022
% of Average
200
150
100
50
0
MID COAST
NORTH COAST
ROGUE
SANDY
SOUTH COAST
UMPQUA
WILLAMETTE
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
CATEGORY
CUMULATIVE
MONTHLY

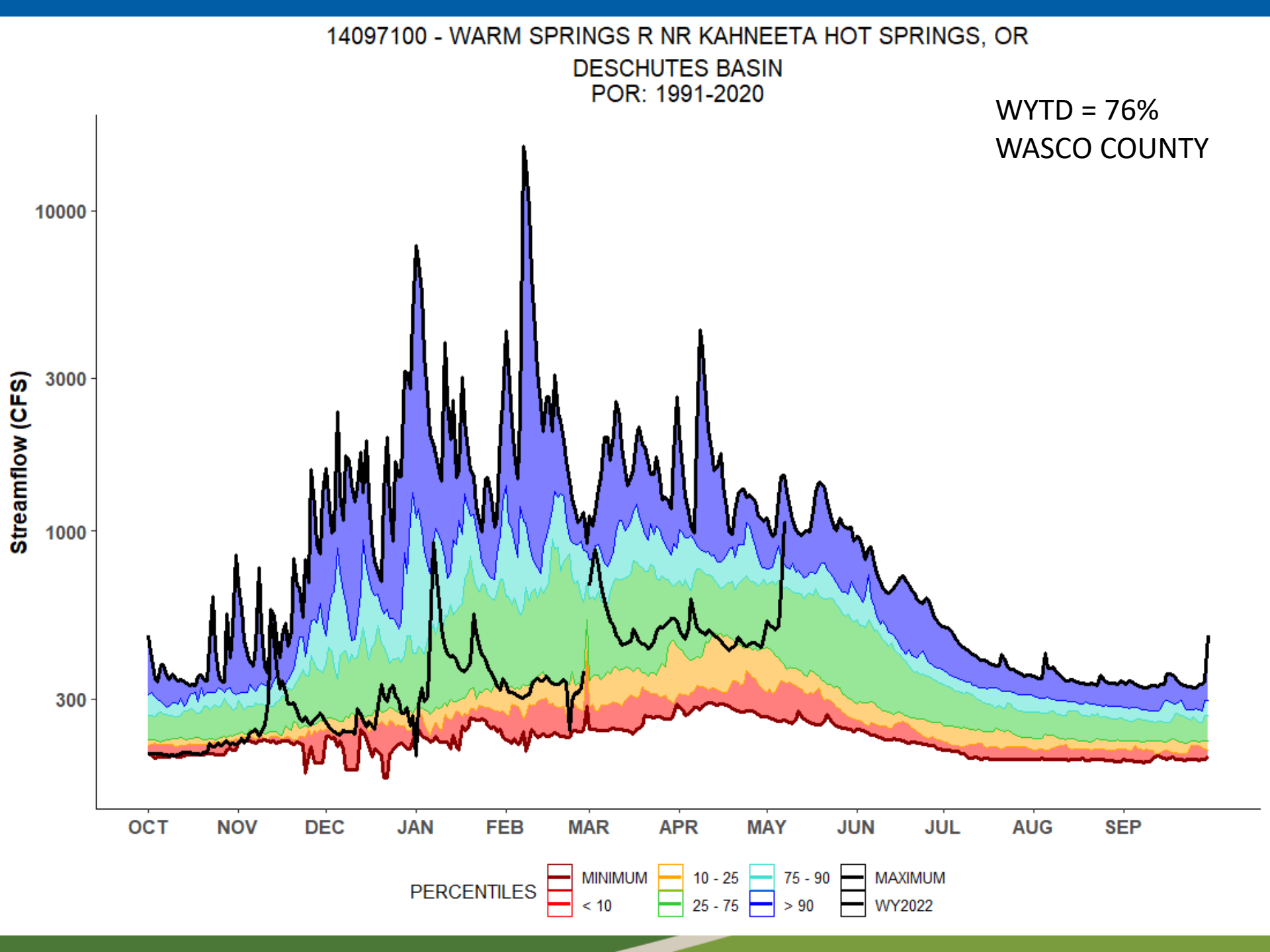

CENTRAL BASINS
% of Average Streamflow - WY 2022
% of Average
150
100
50
0
DESCHUTES
SE AND SUMMER L
HOOD
JOHN DAY
KLAMATH
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
CATEGORY
CUMULATIVE
MONTHLY

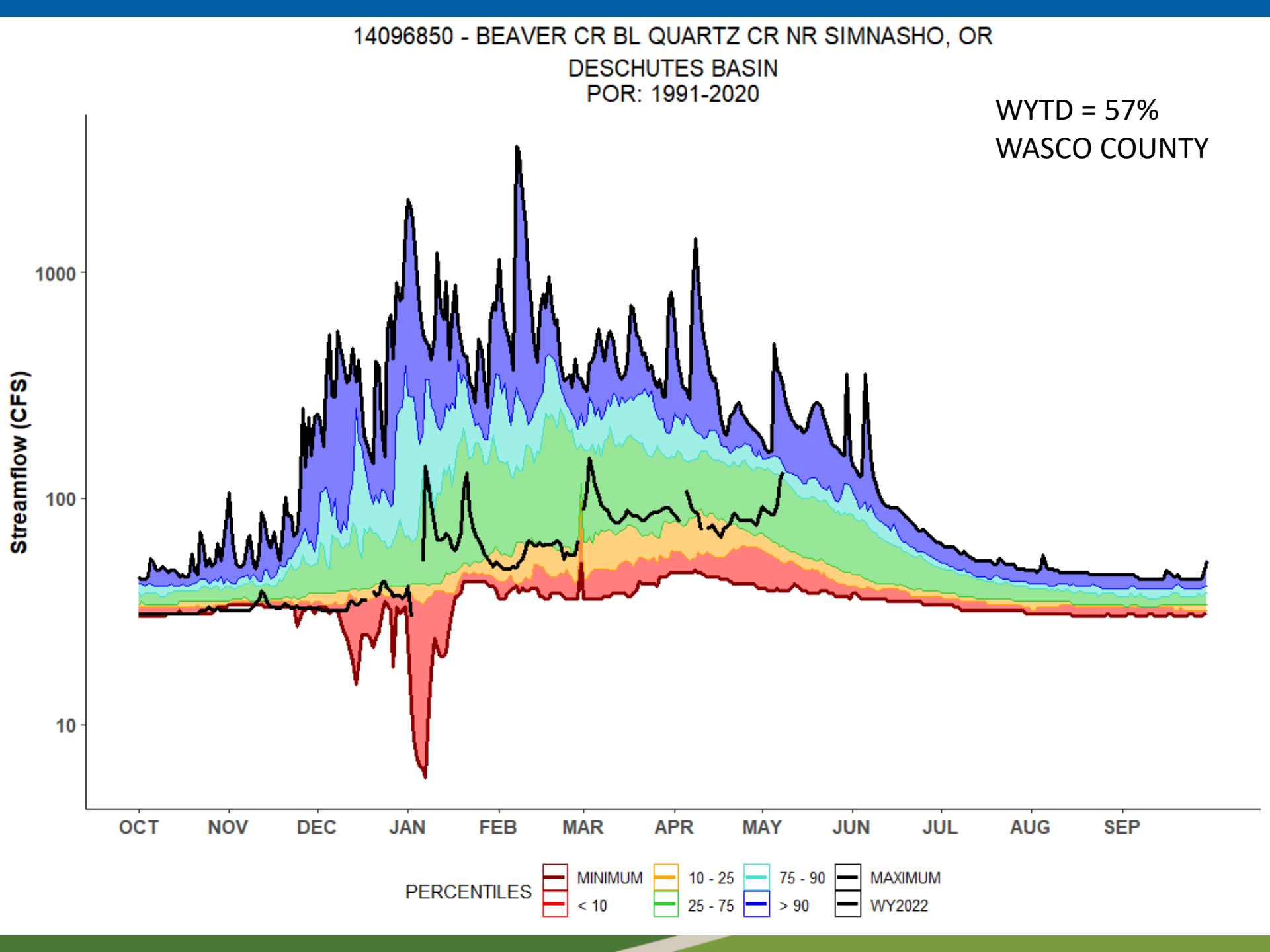

EASTERN BASINS
% of Average Streamflow - WY 2022
% of Average
150
100
50
0
GRANDE RONDE
MALHEUR
MALHEUR LAKES
POWDER
UMATILLA
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
CATEGORY
CUMULATIVE
MONTHLY

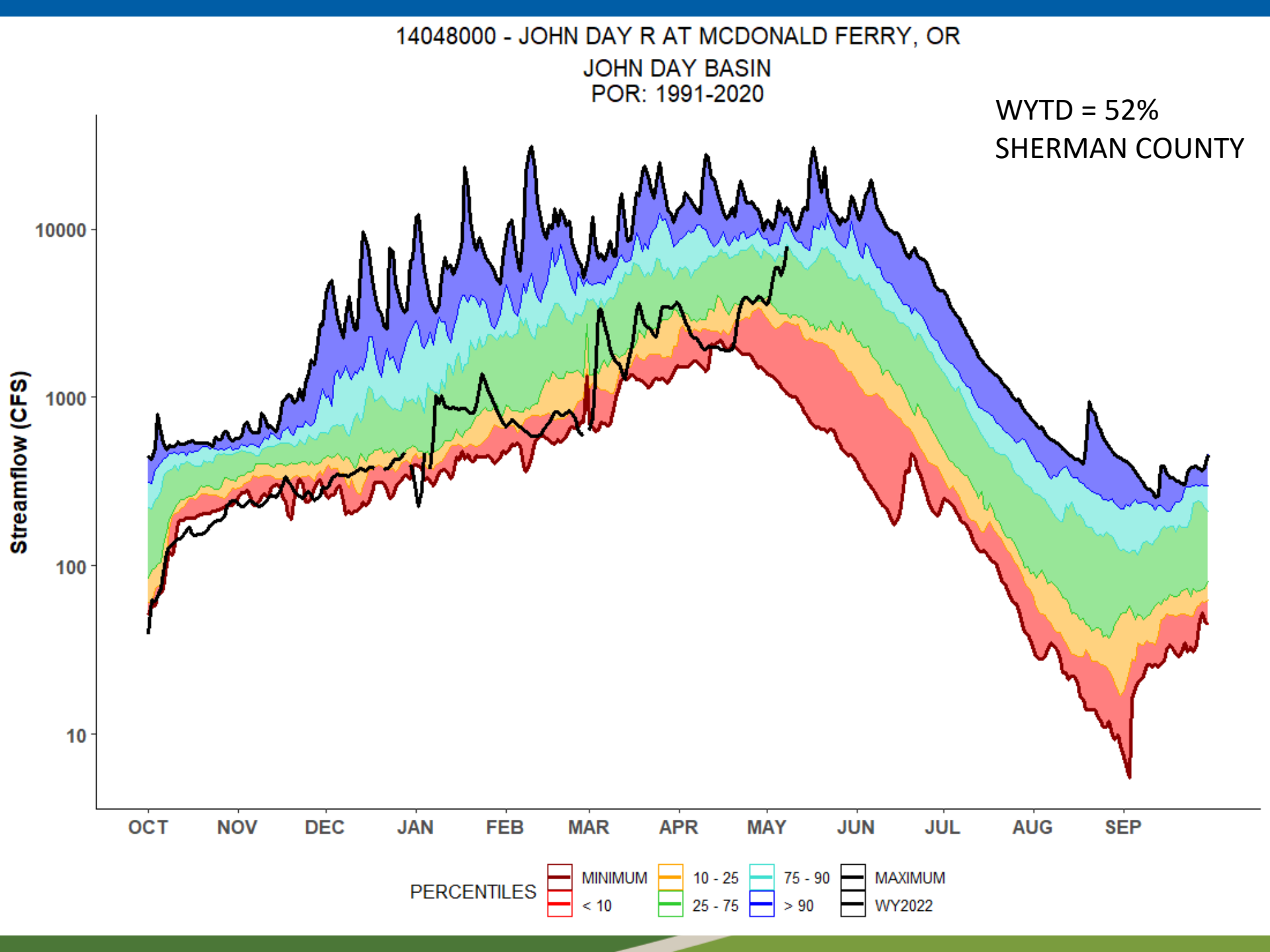

14020000 - UMATILLA R AB MEACHAM CR NR GIBBON, OR
UMATILLA BASIN
POR: 1991-2020
WYTD = 86%
UMATILLA COUNTY
Streamflow (CFS)
10000
1000
100
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2022


13318960 - GRANDE RONDE R NR PERRY, OR
GRANDE RONDE BASIN
POR: 1991-2020
WYTD = 77%
UNION COUNTY
Streamflow (CFS)
10000
1000
100
10
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2022


14375100 - SUCKER CR BL L GRAYBACK CR NR HOLLAND, OR
ROGUE BASIN
POR: 1991-2020
WYTD = 55%
JOSEPHINE COUNTY
Streamflow (CFS)
10000
1000
100
10
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2022


14097100 - WARM SPRINGS R NR KAHNEETA HOT SPRINGS, OR
DESCHUTES BASIN
POR: 1991-2020
WYTD = 76%
WASCO COUNTY
Streamflow (CFS)
10000
3000
1000
300
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2022


14096850 - BEAVER CR BL QUARTZ CR NR SIMNASHO, OR
DESCHUTES BASIN
POR: 1991-2020
WYTD = 57%
WASCO COUNTY
Streamflow (CFS)
1000
100
10
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2022


14048000 - JOHN DAY R AT MCDONALD FERRY, OR
JOHN DAY BASIN
POR: 1991-2020
WYTD = 52%
SHERMAN COUNTY
Streamflow (CFS)
10000
1000
100
10
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2022

Summary

- Soon to be 15 counties with Executive Orders for drought
- Late April and early May precipitation beneficial to streamflows throughout much of state
- Although streamflow response is encouraging, proceed with caution in drought-afflicted areas
  - Little snowpack to sustain flows

OREGON
WATER RESOURCES DEPARTMENT

QUESTIONS?

BUREAU OF RECLAMATION

Reclamation Storage Update

Oregon Water Supply Availability Committee Meeting

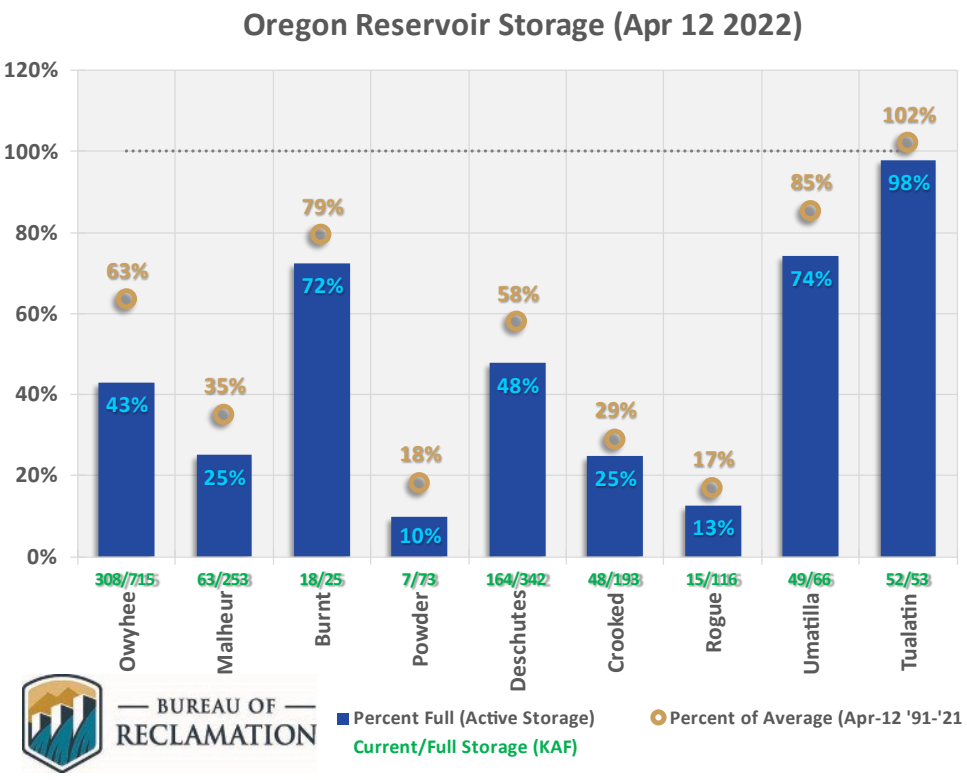
May 11, 2022

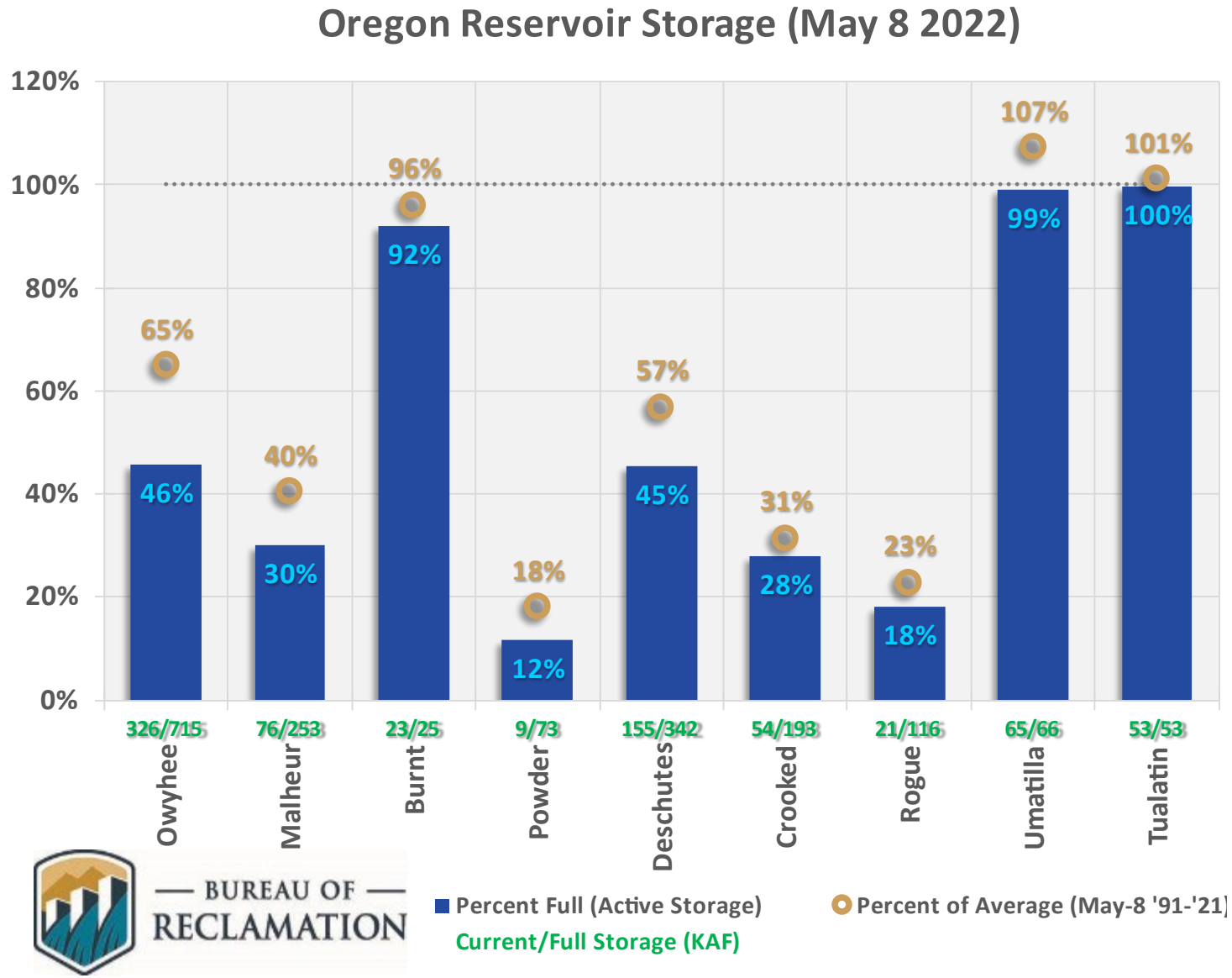
Basin Operations Summary

- Operations Activities:
  - Irrigation is underway
  - Wet conditions have suppressed demand for most river basins
  - Minor flood risk management occurring at McKay & Scoggins reservoirs

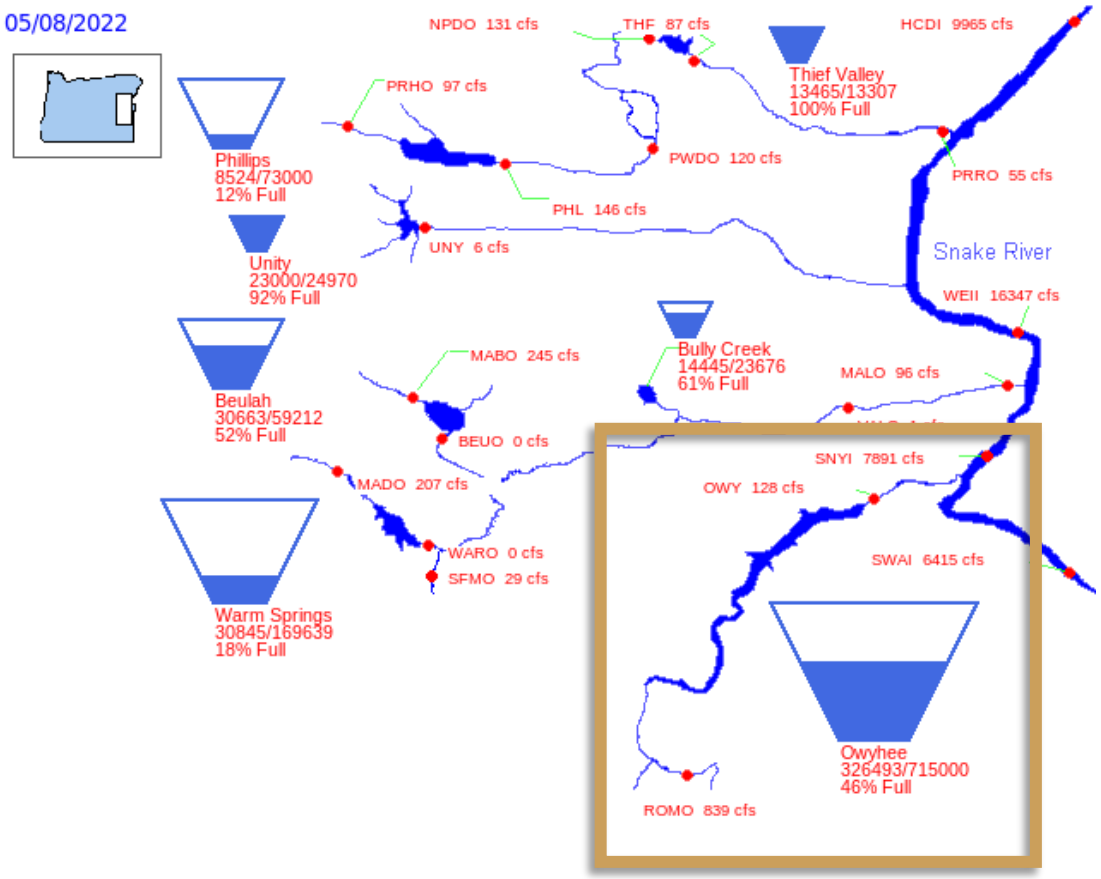
- Water Supply Notes
  - Water supply allotments are heavily reduced
    - Owyhee (50%), Malheur (30% to 60%)
  - Reservoir conditions support drought declarations to-date
    - Crook, Jefferson, Klamath, Harney, Malheur, Deschutes, & Baker Counties

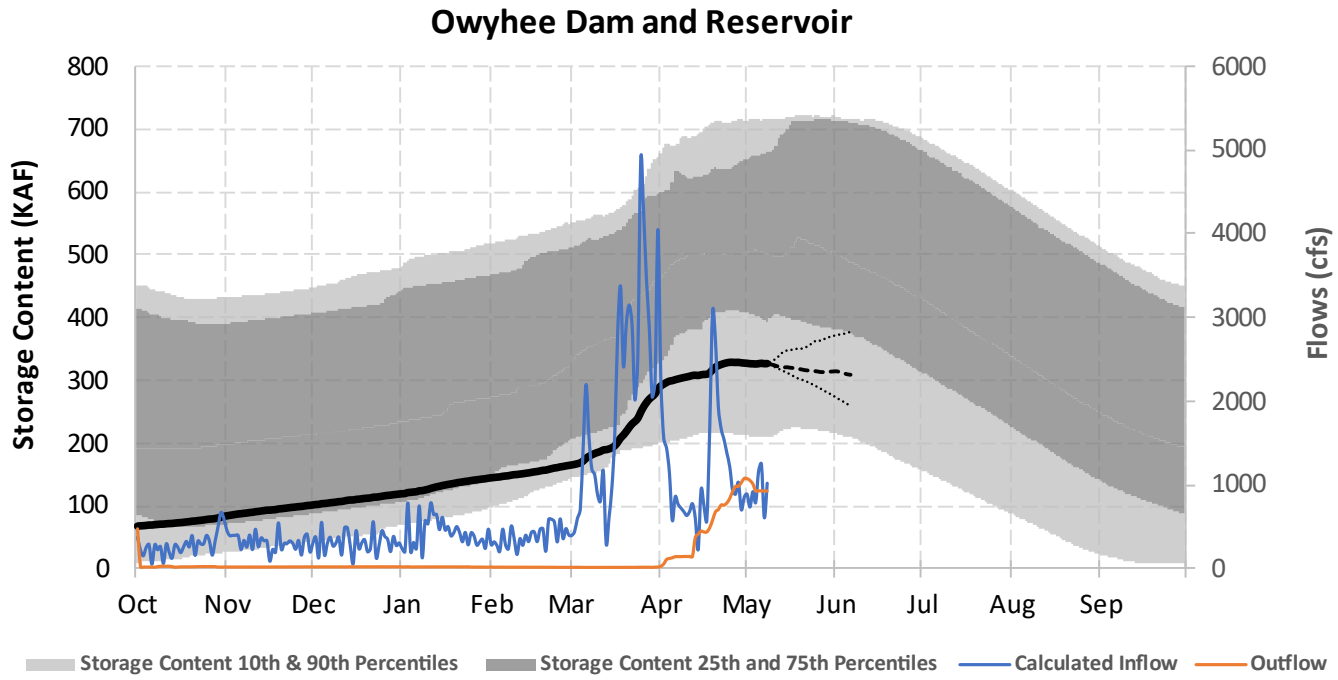
Storage Conditions





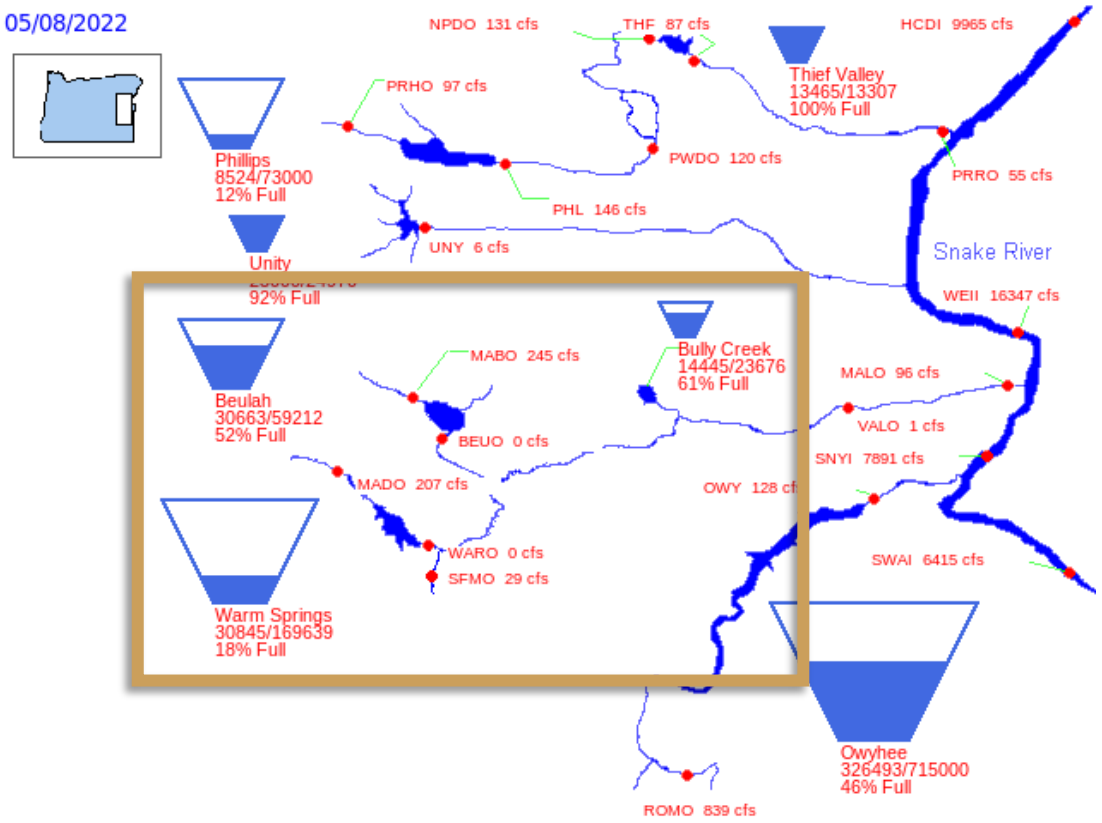
Owyhee River Basin

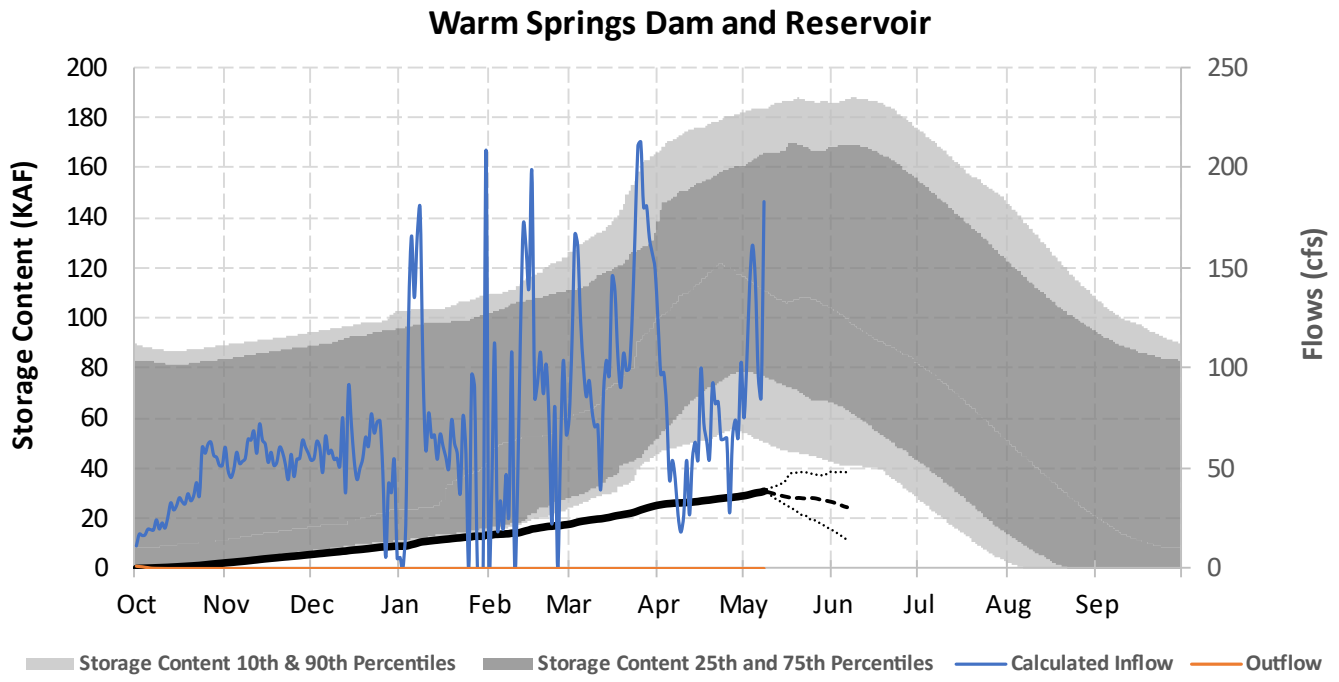


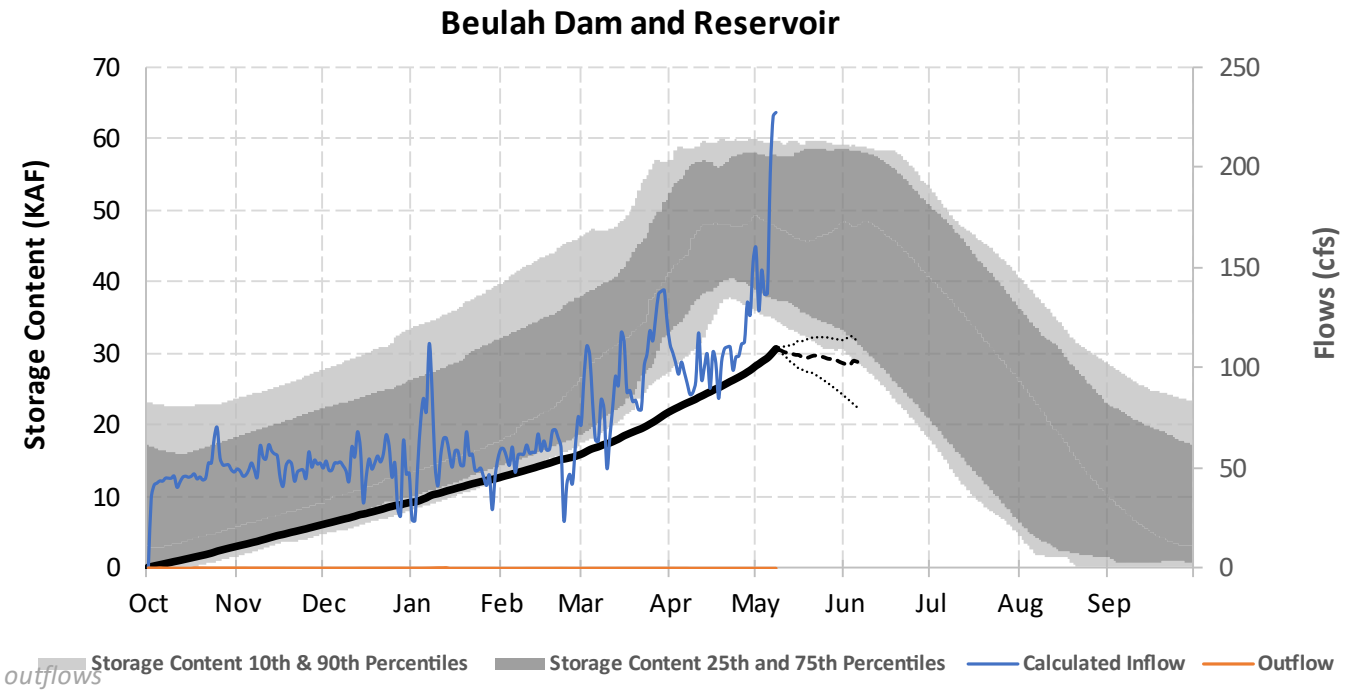


*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Malheur River Basin

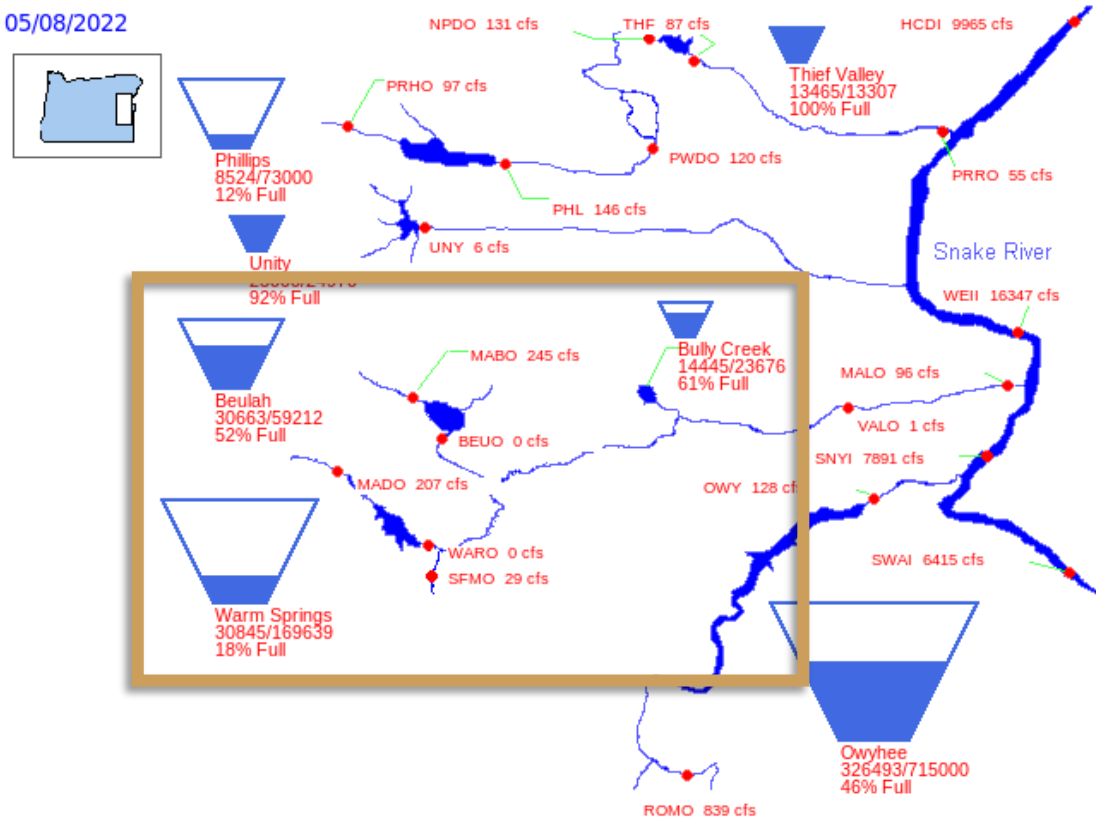


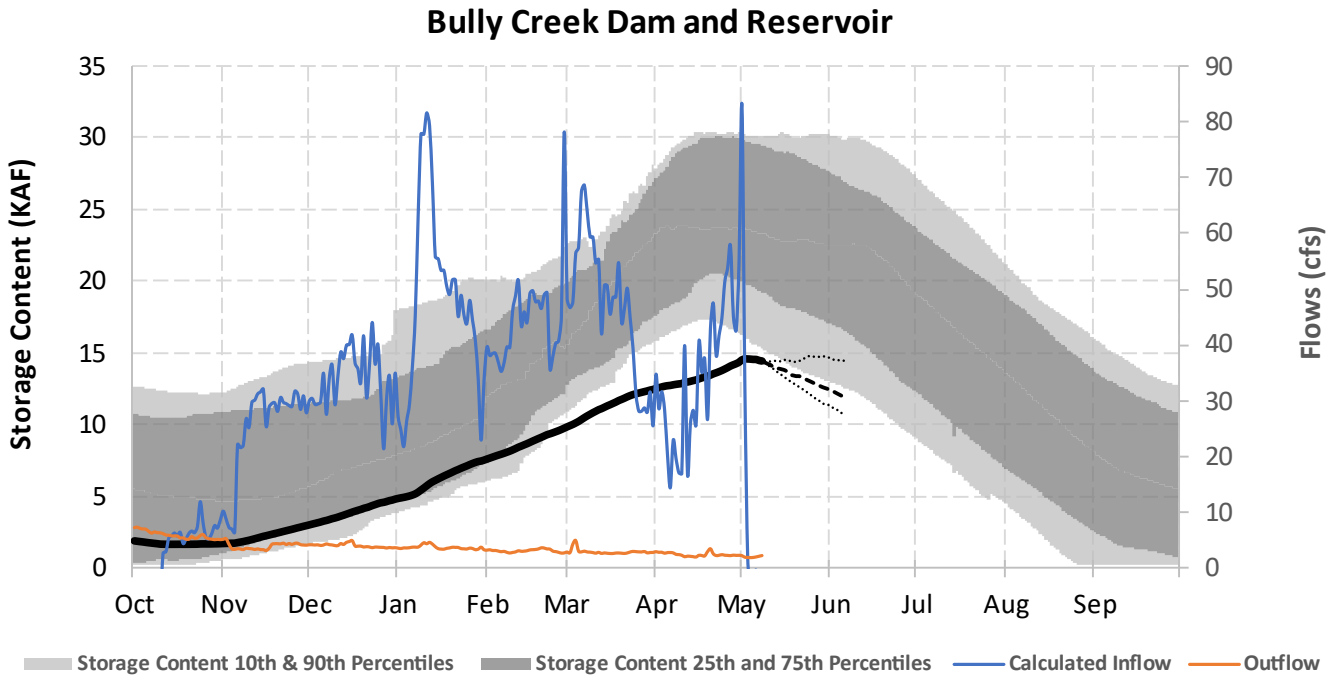




Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

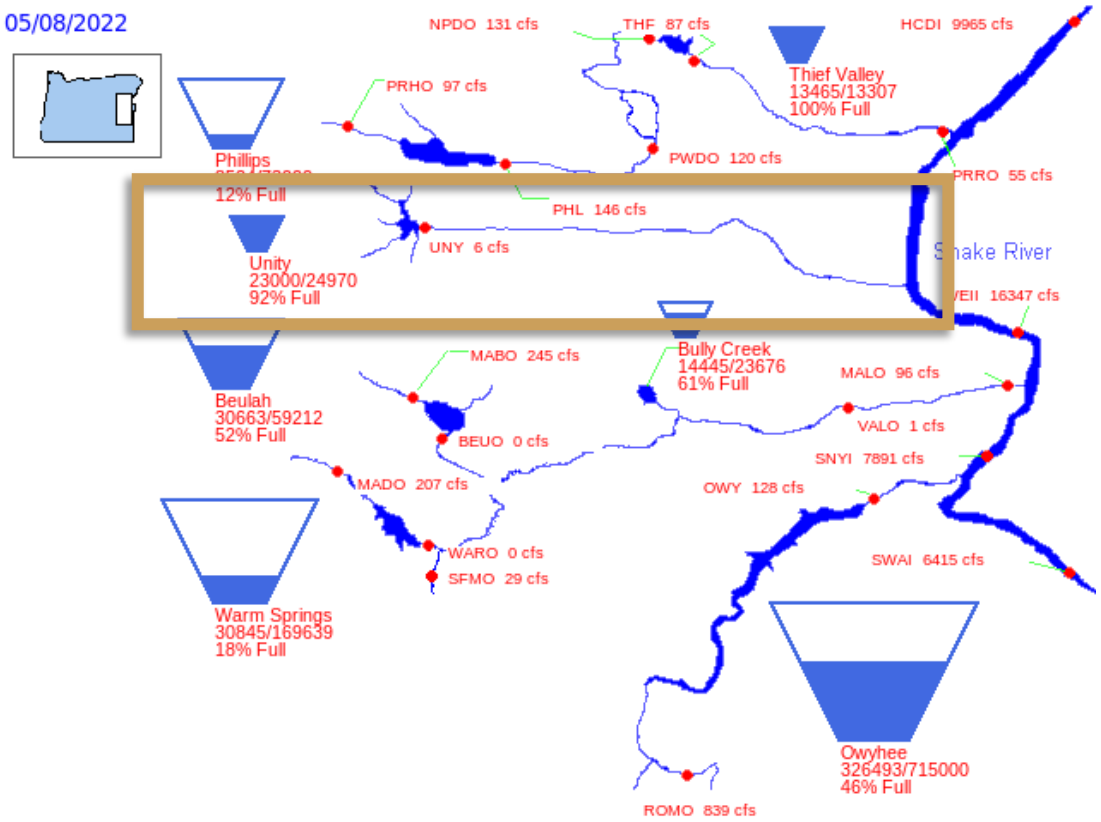
Malheur River Basin

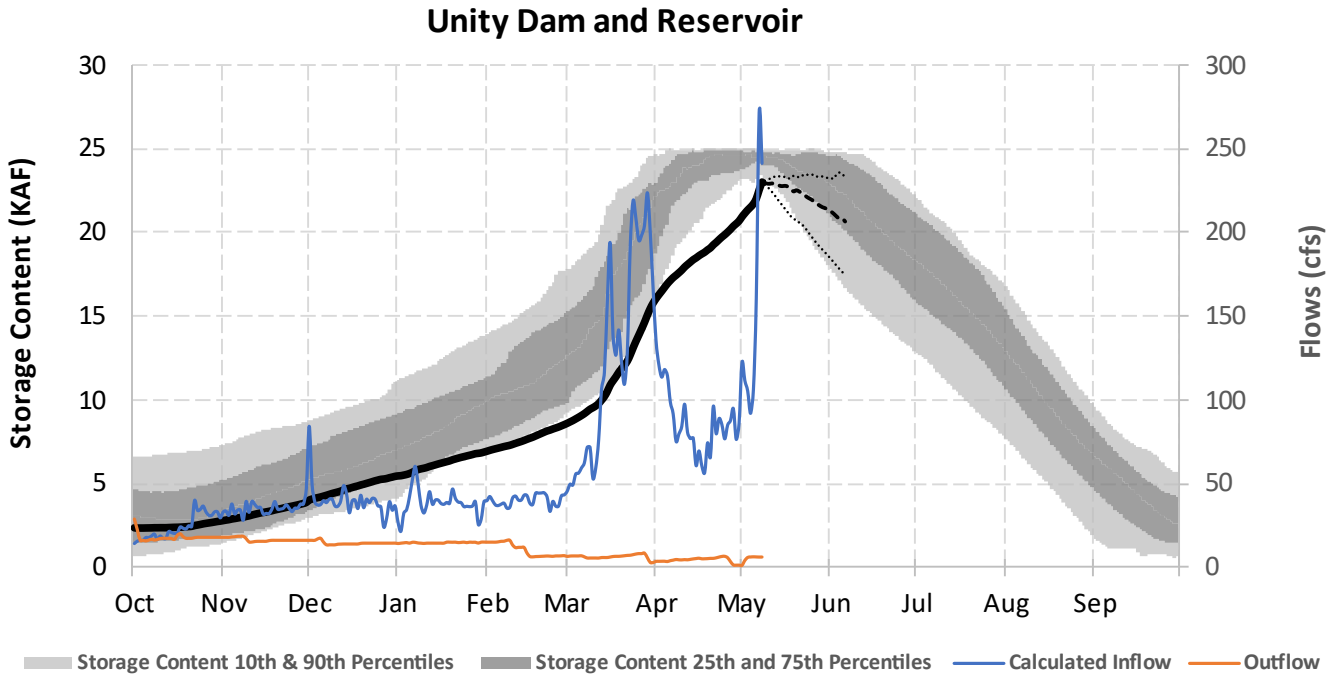




*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

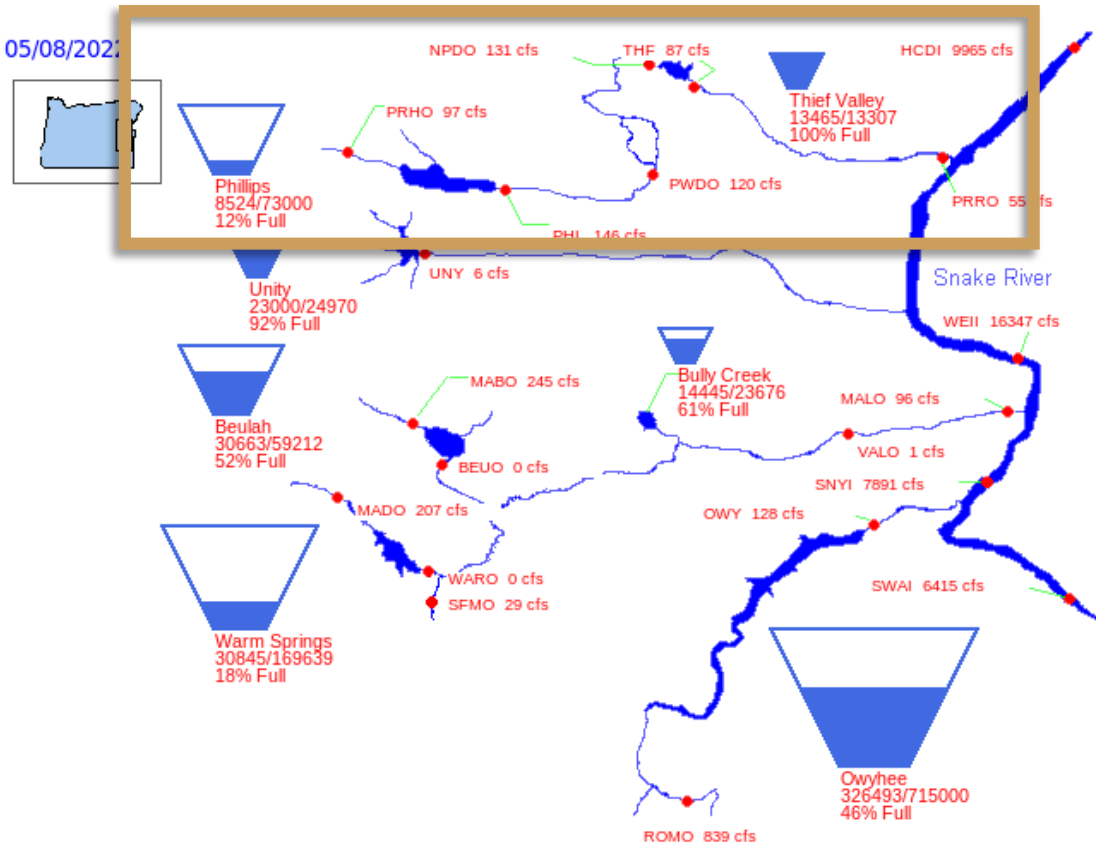
Burnt River Basin

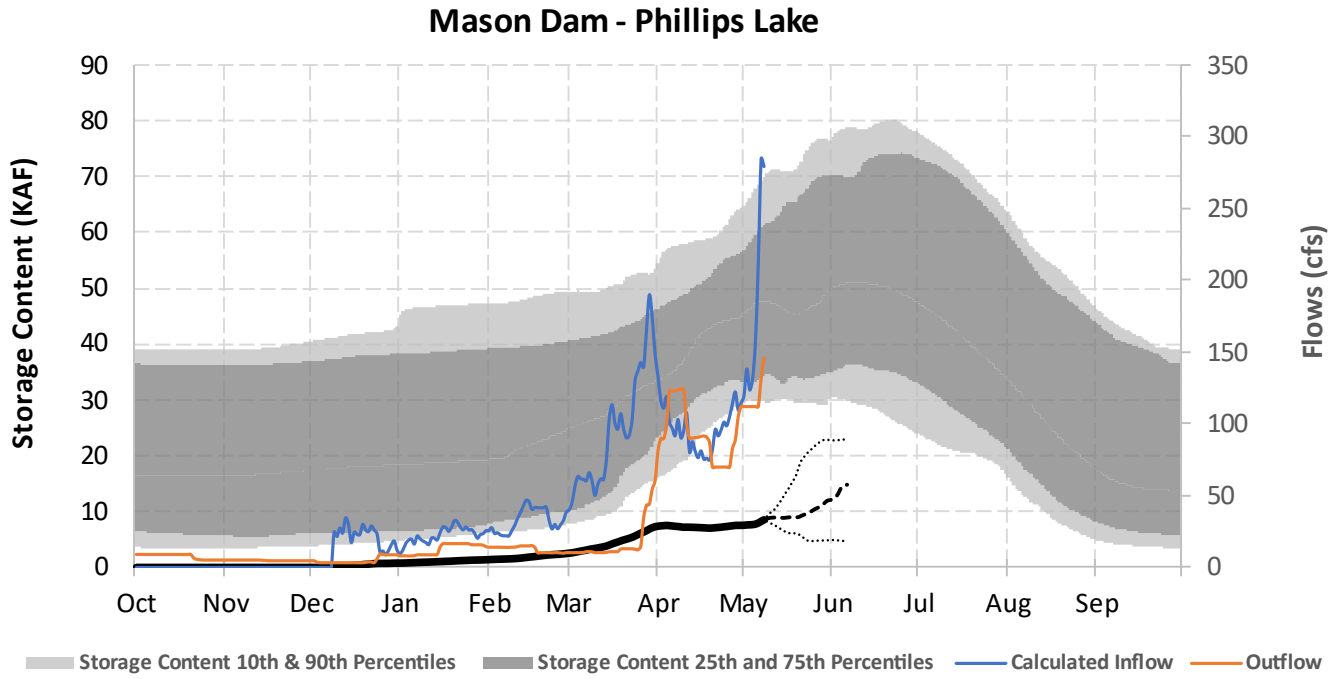




*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

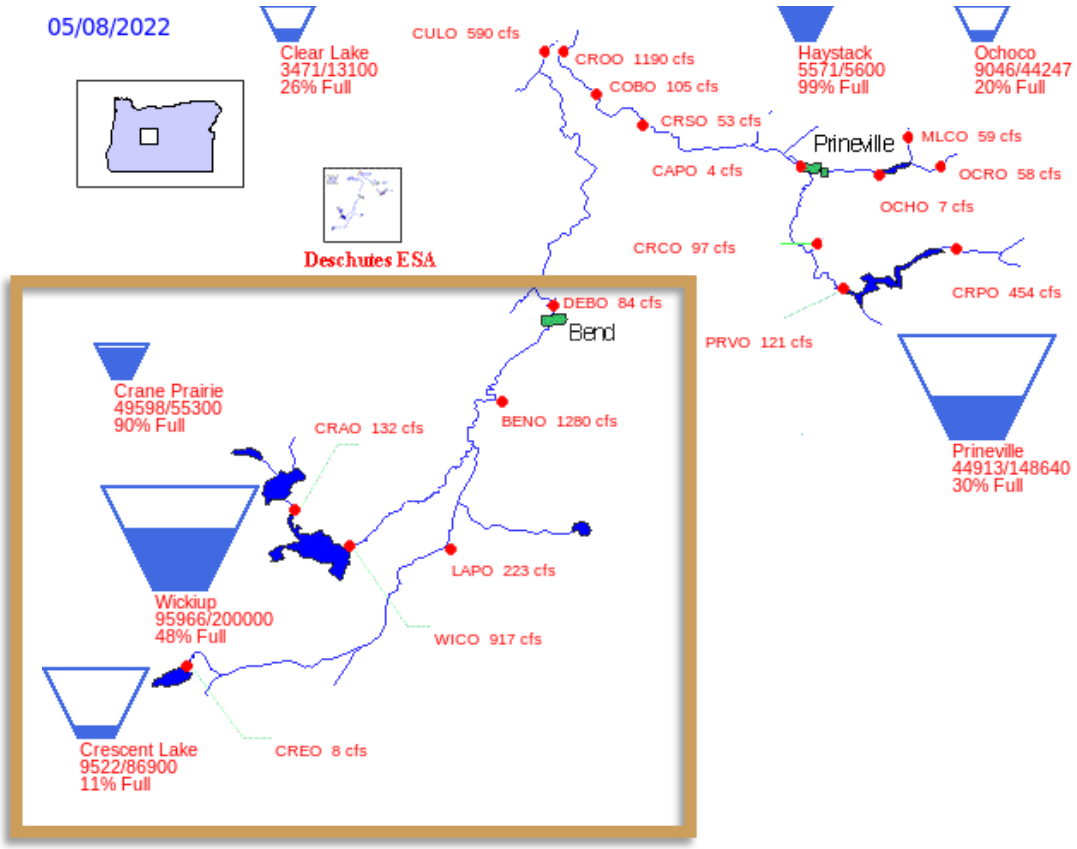
Powder River Basin

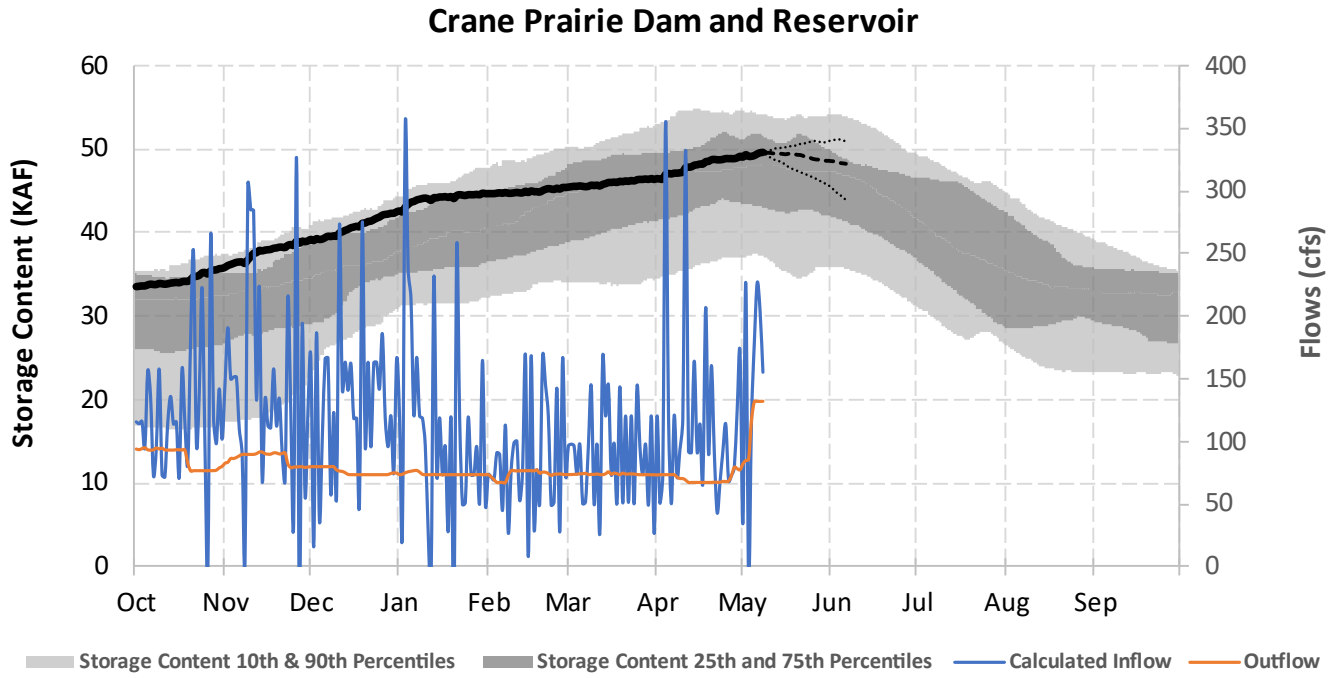


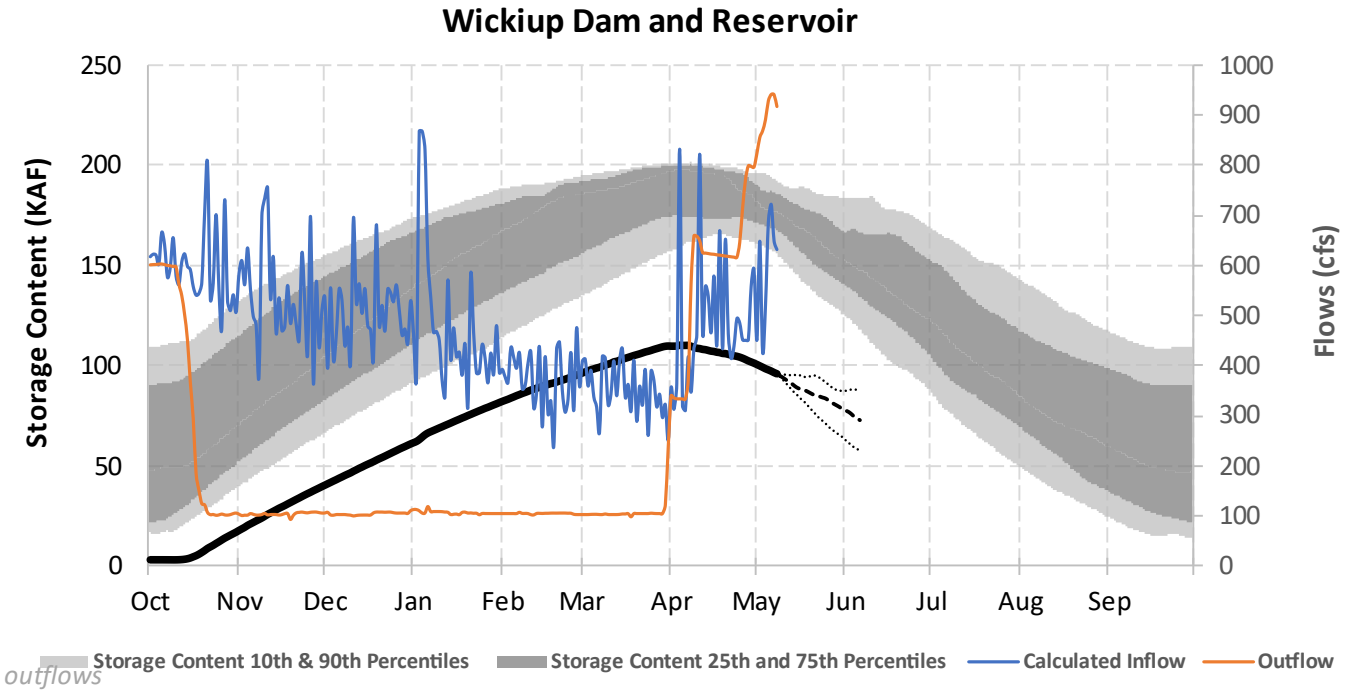


*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Deschutes River Basin

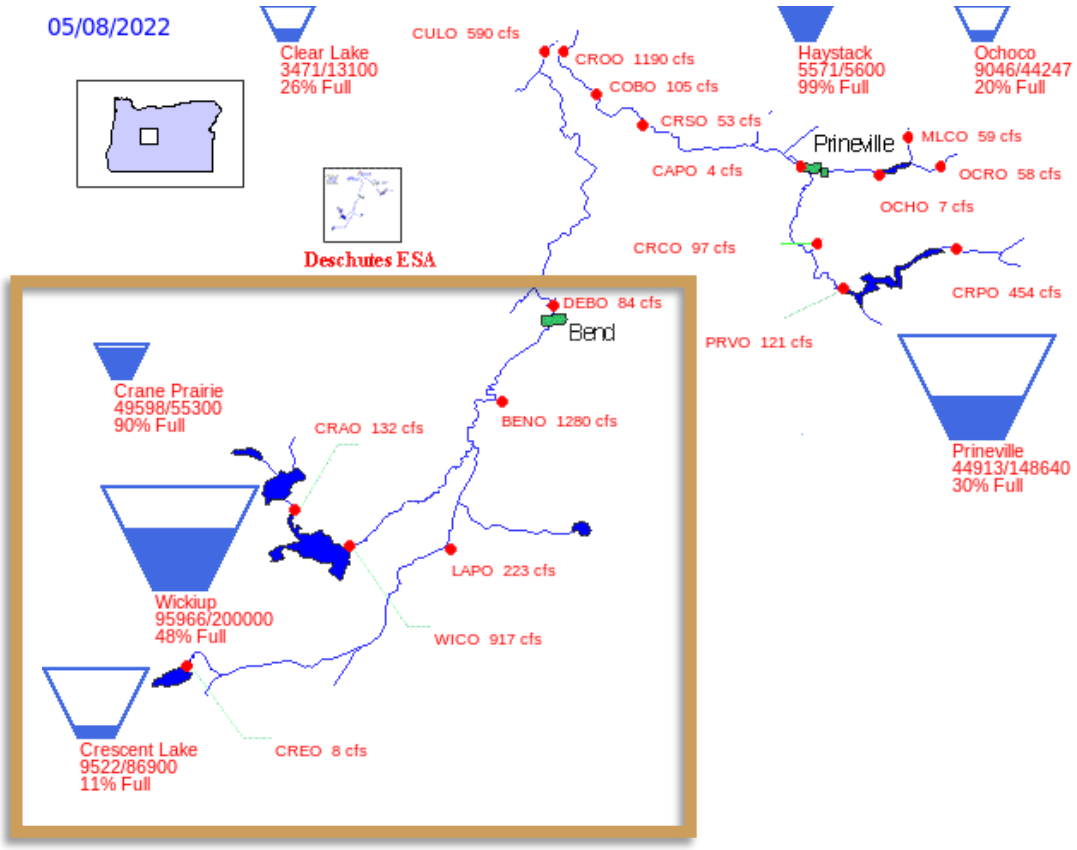


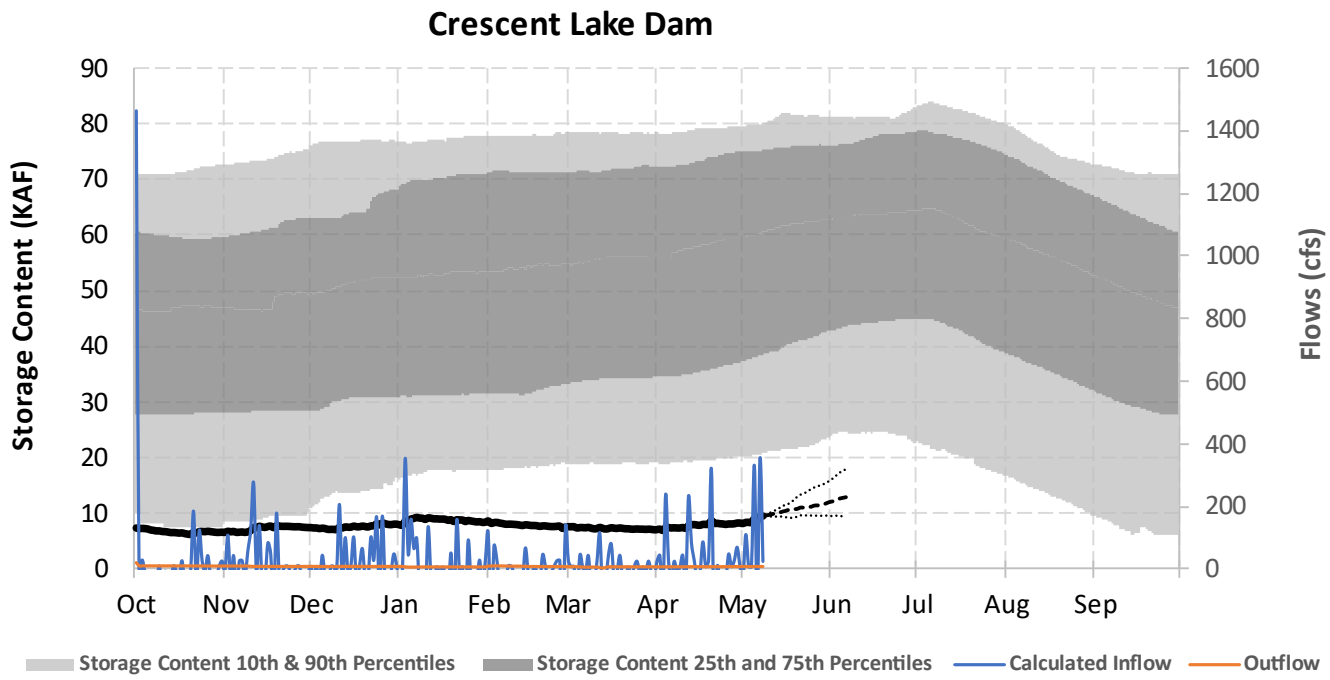




*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

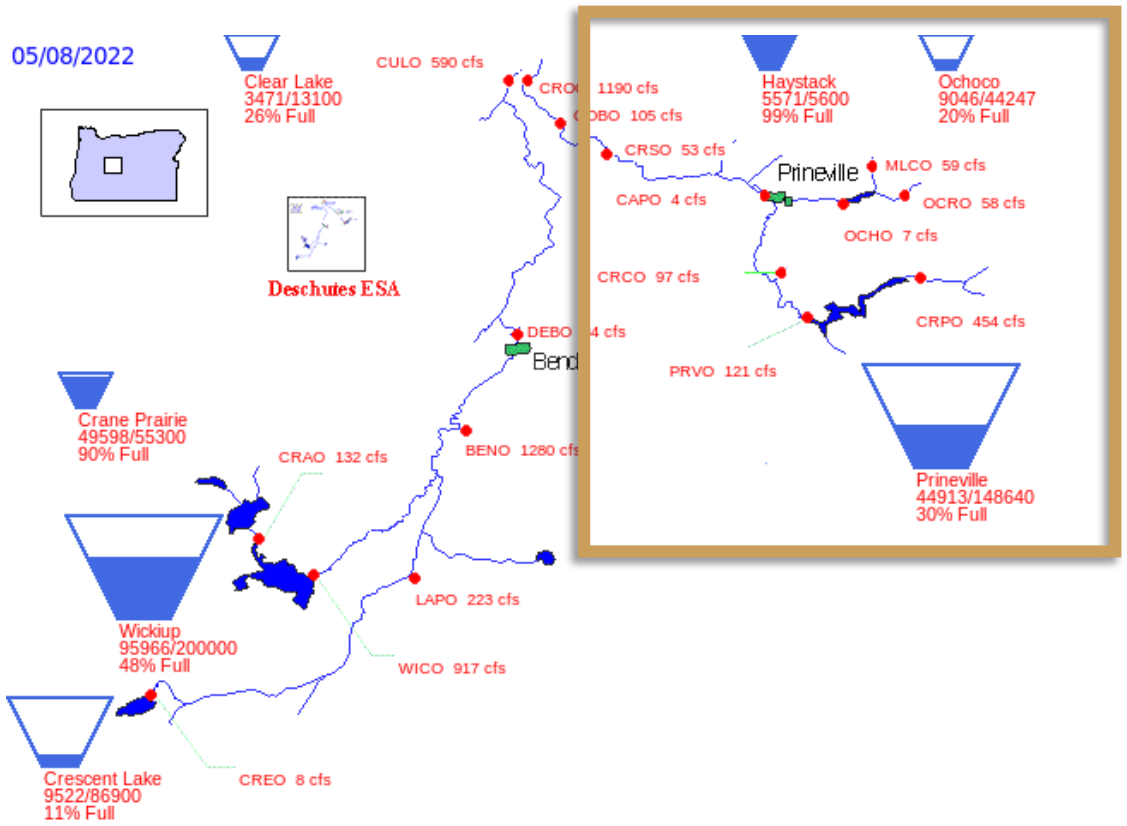
Deschutes River Basin

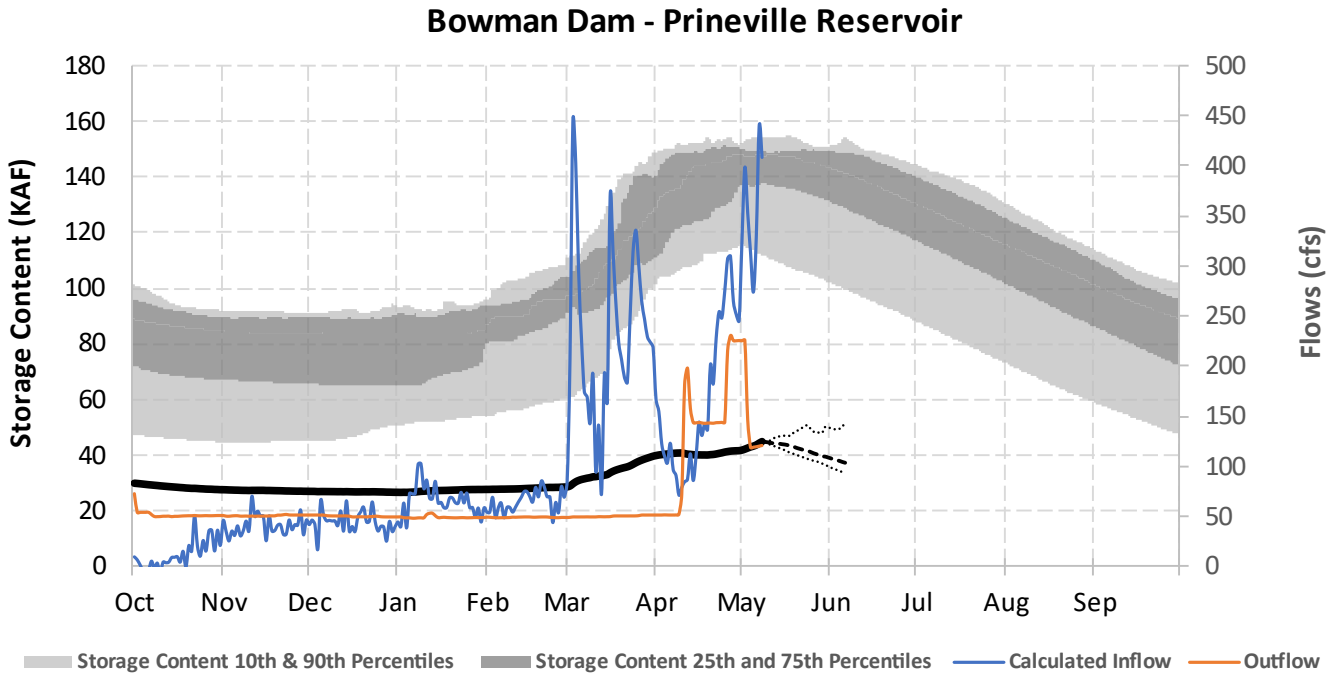


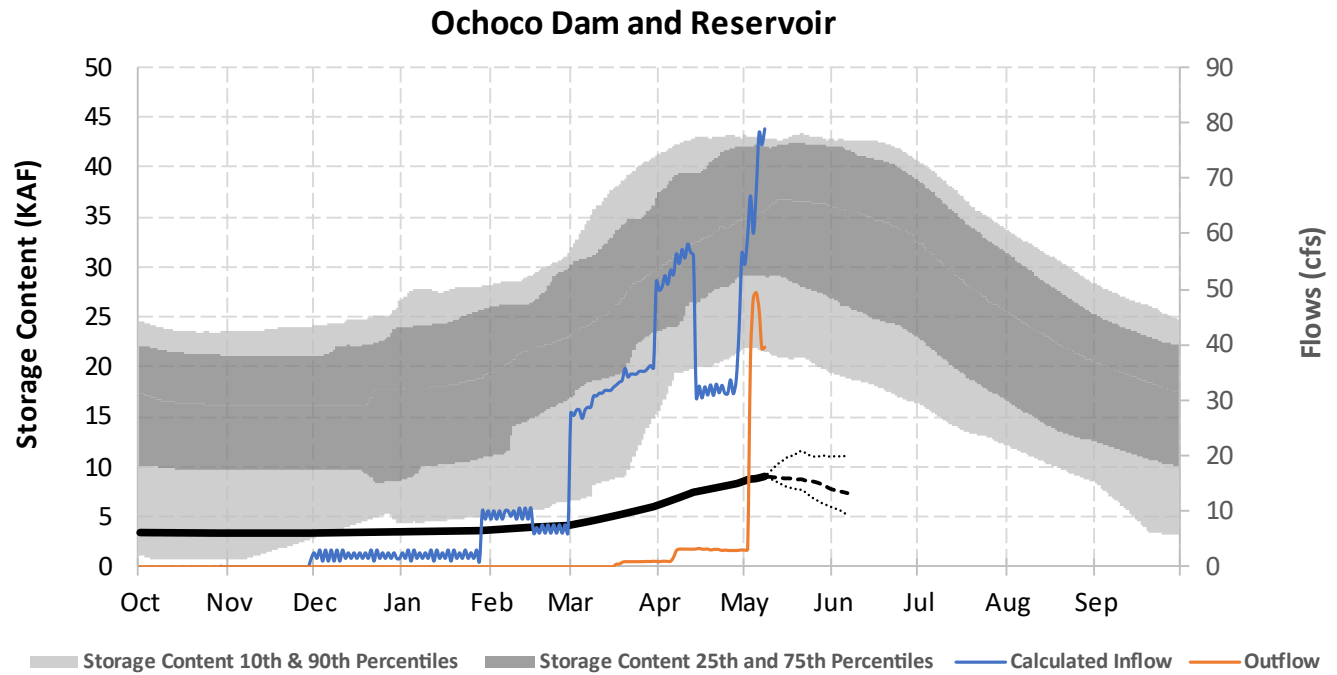


*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Crooked River Basin

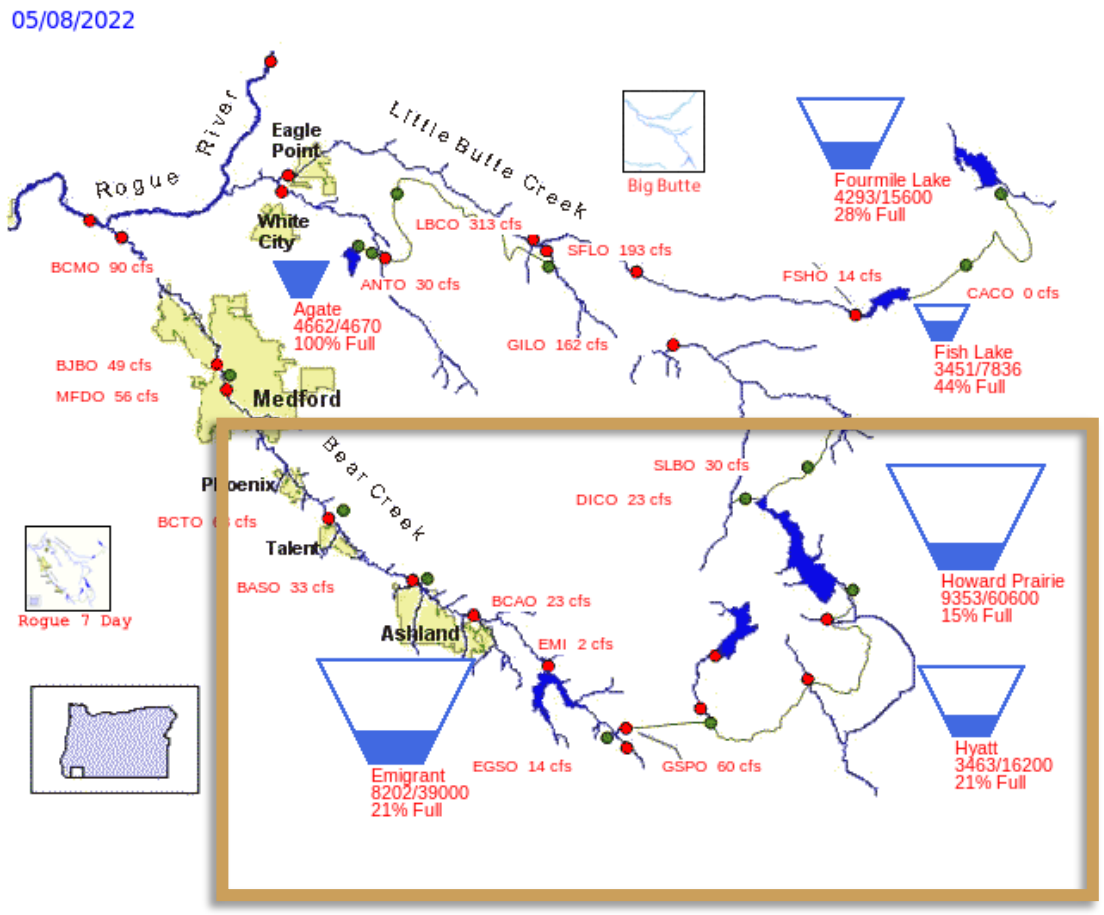


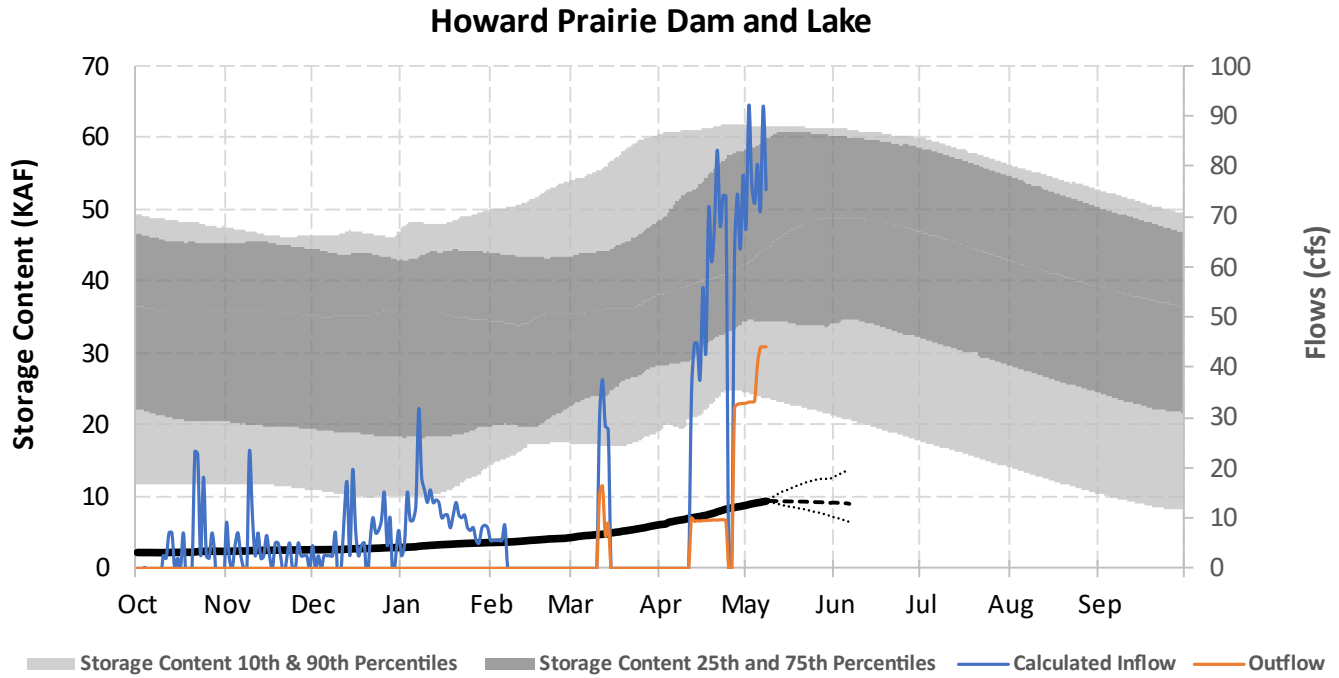


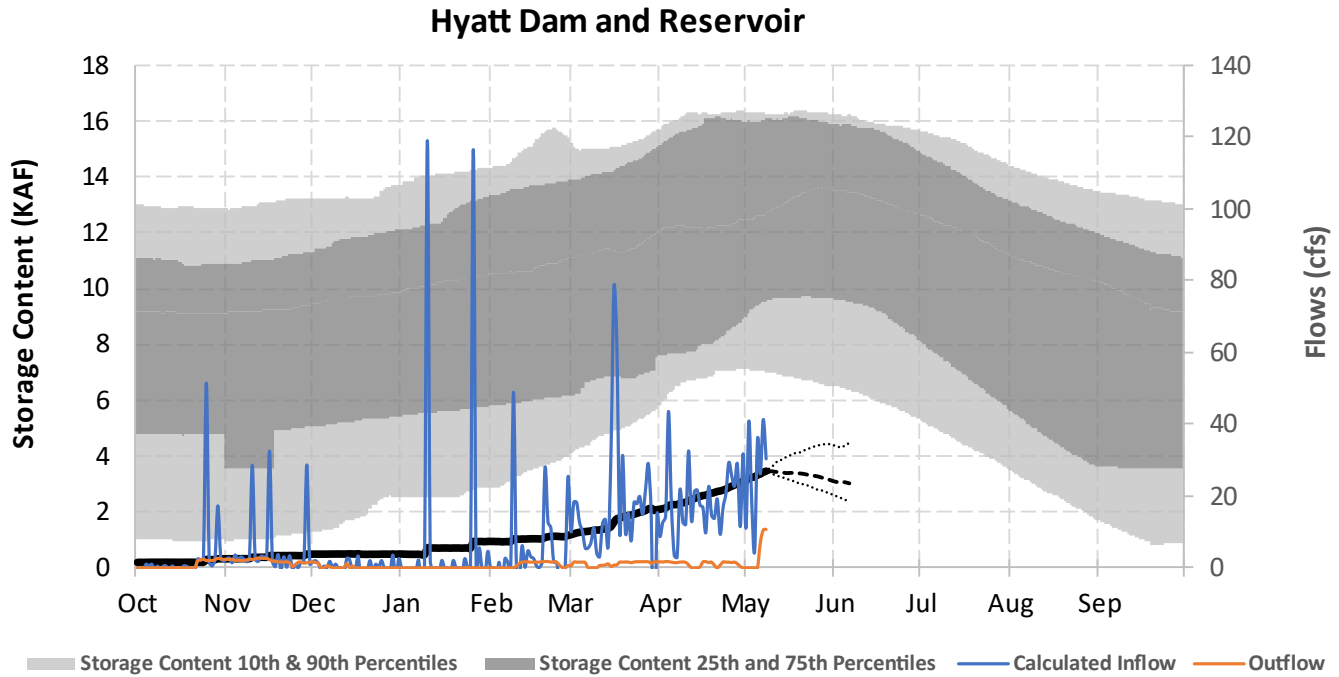


*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Rogue River Basin



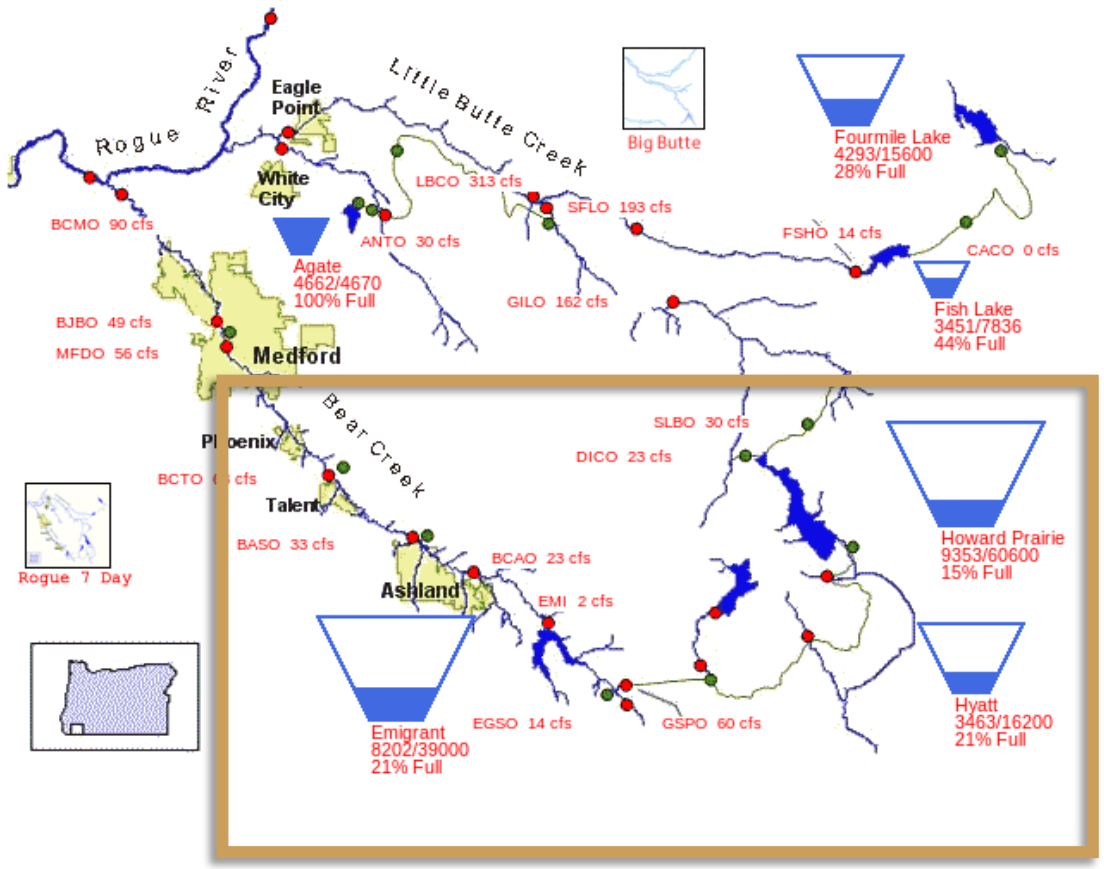


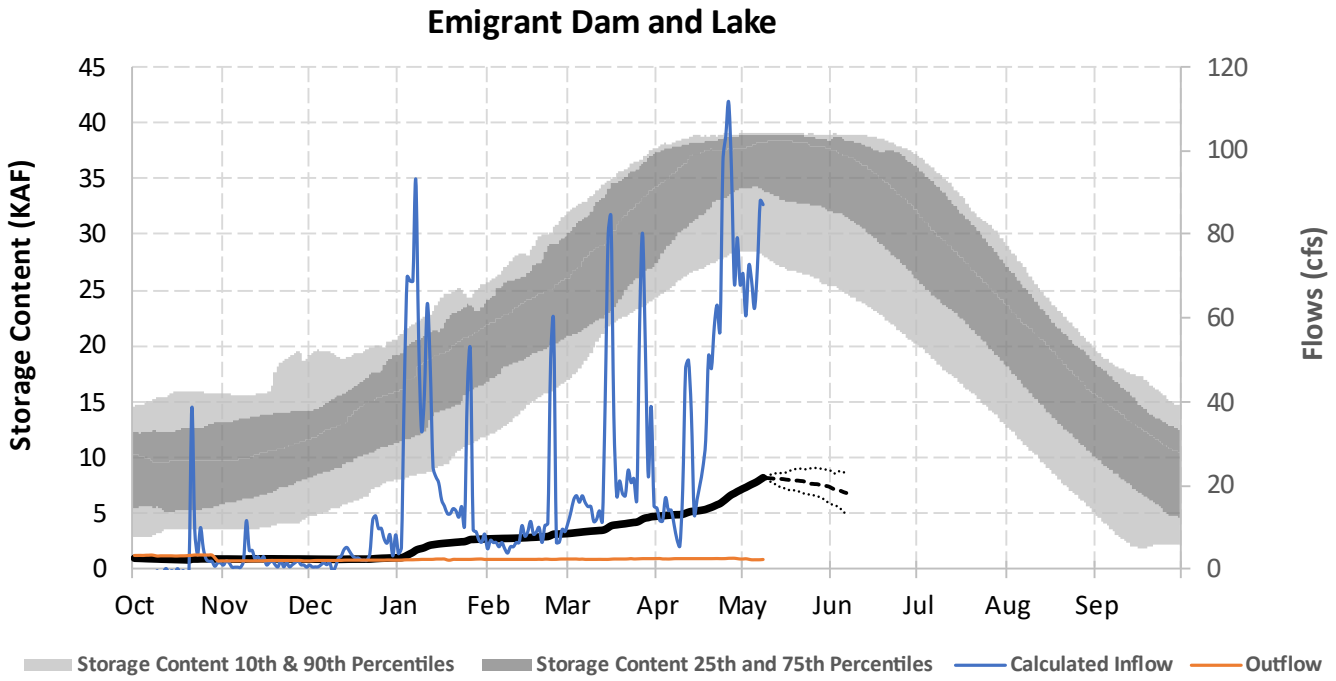


*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Rogue River Basin

05/08/2022

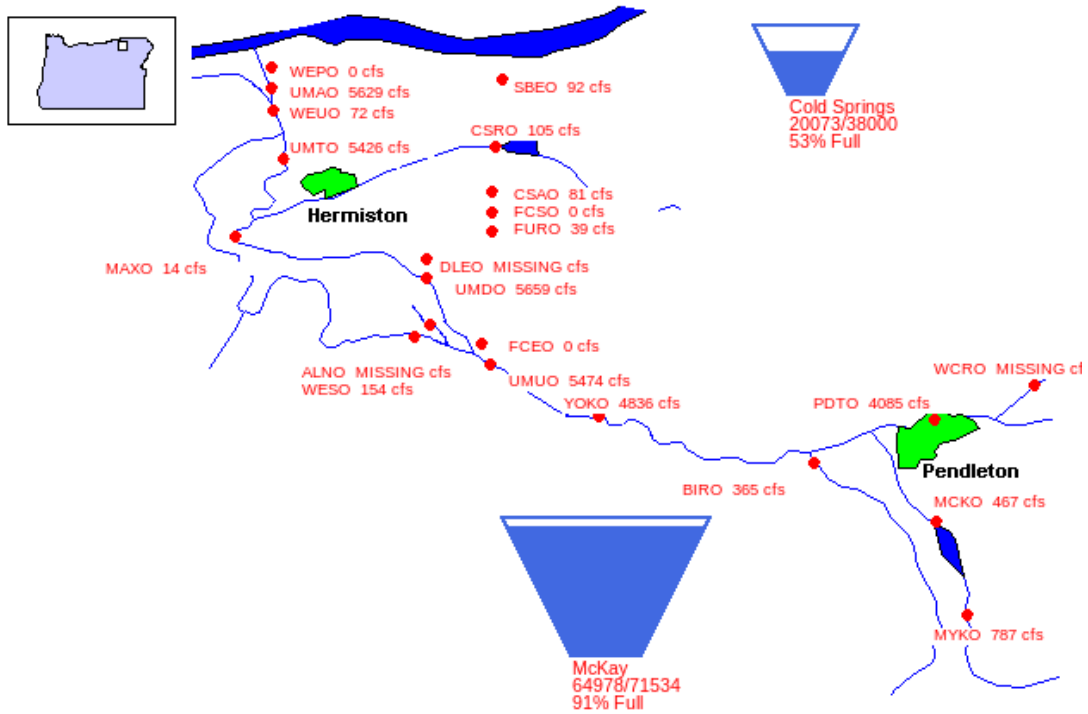


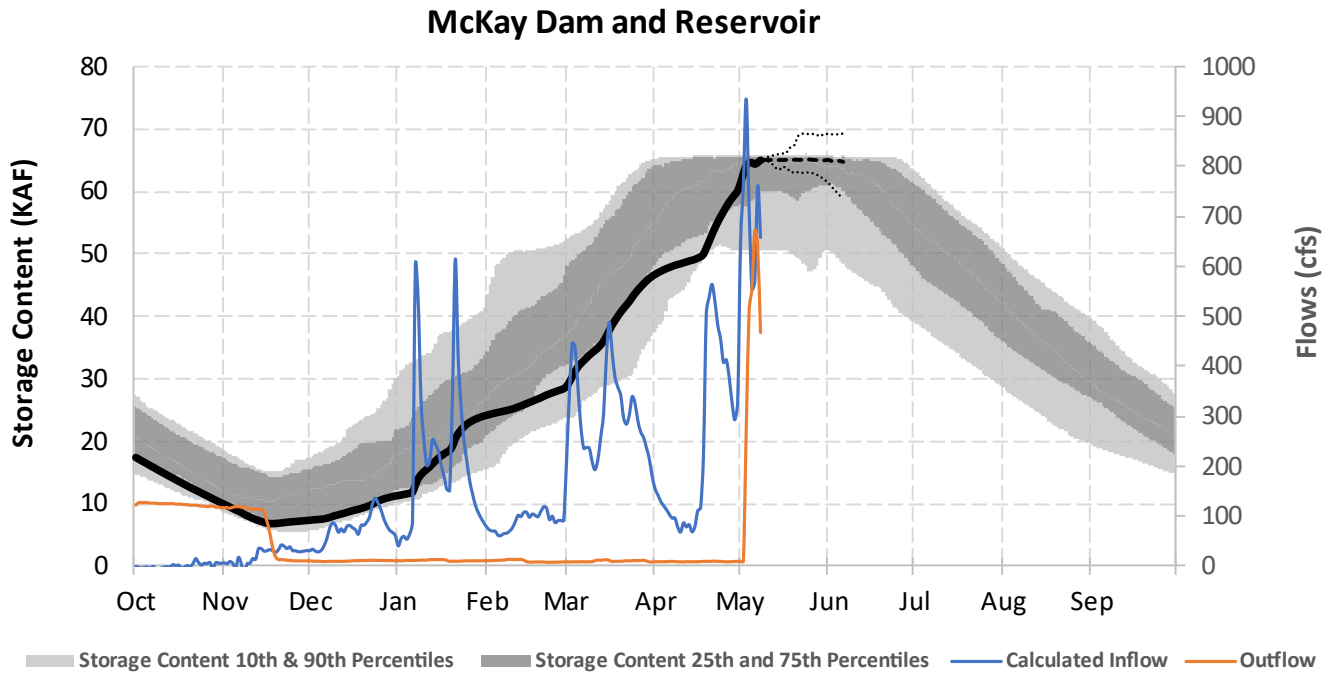


*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Umatilla River Basin

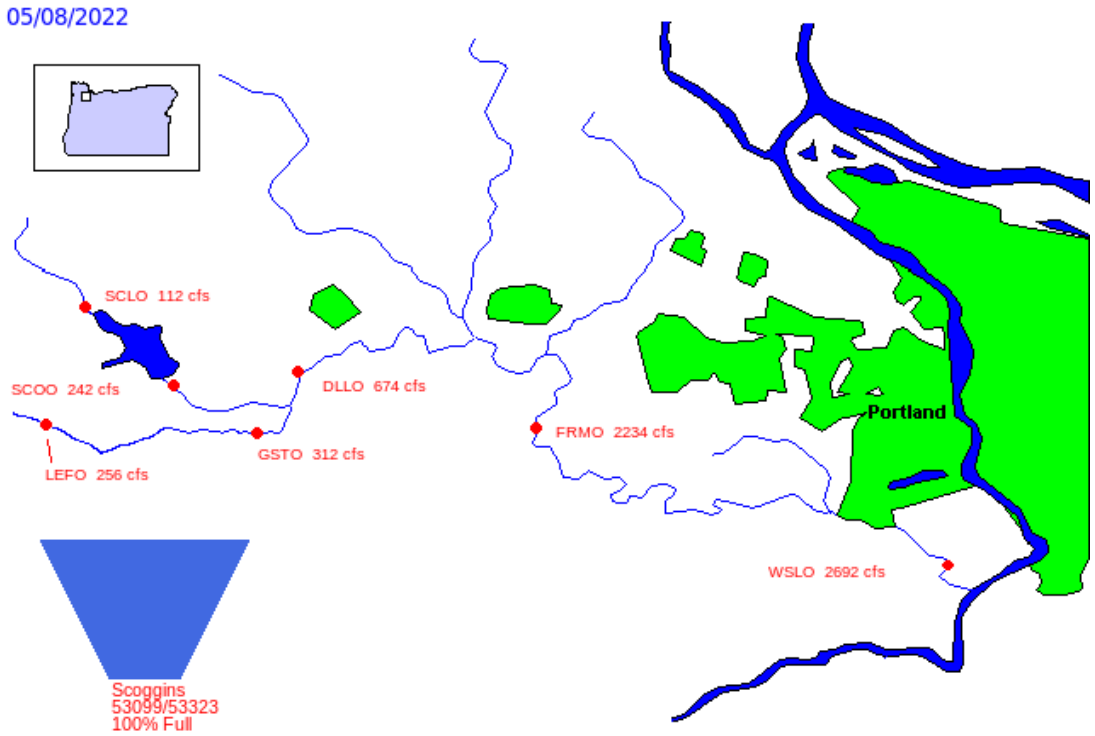
05/08/2022

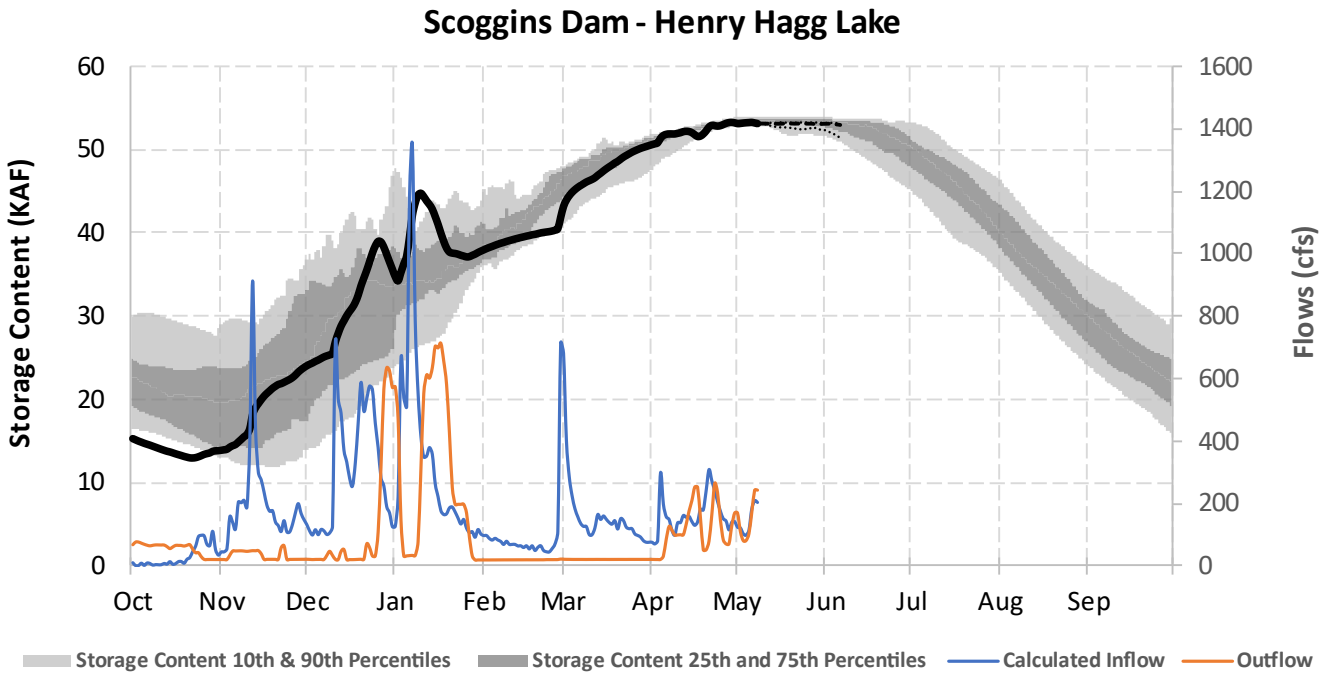




*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Tualatin River Basin





*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

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BUREAU OF RECLAMATION